

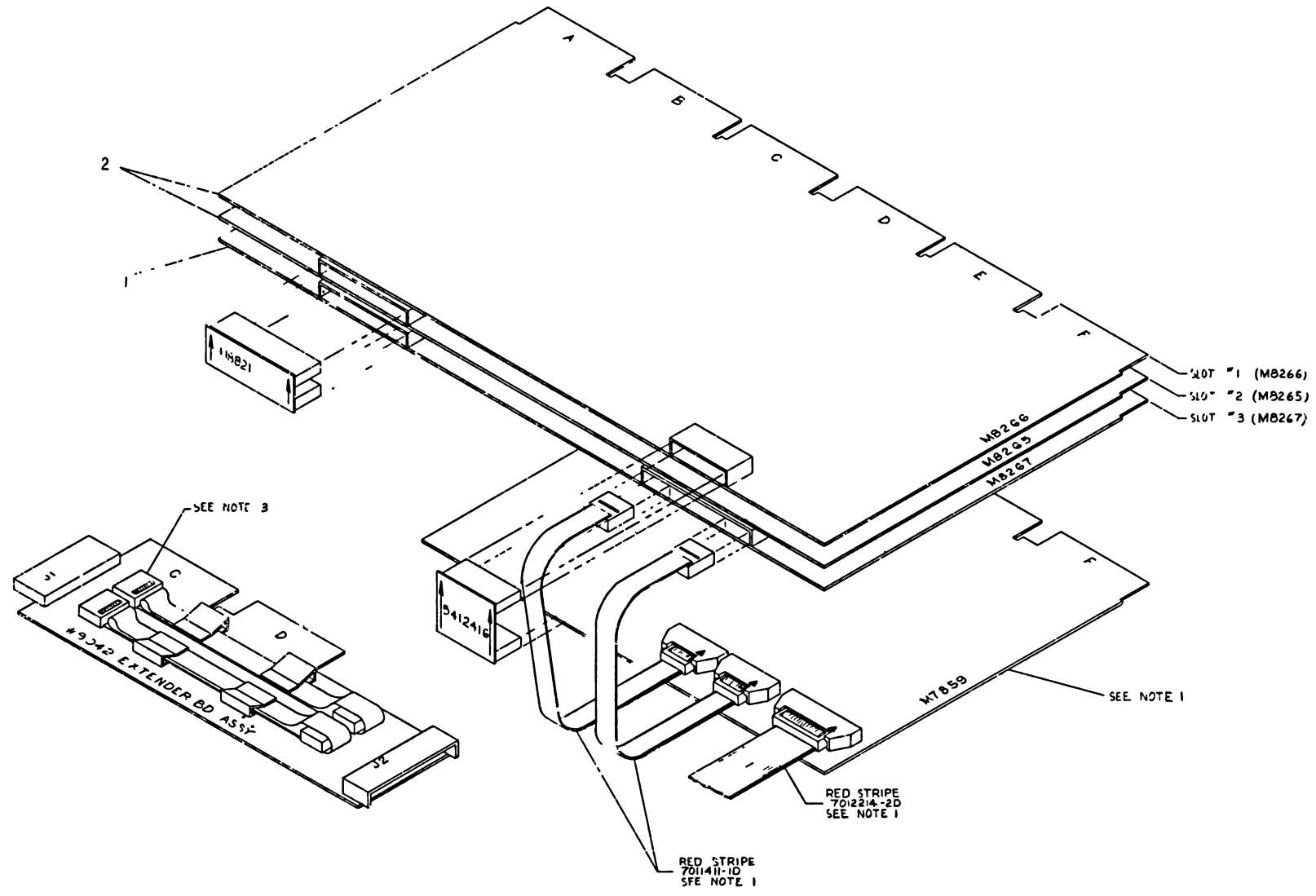
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NOTES:

1. THE CABLES AND M7859 CONTROL BD. ARE PART OF THE KY11-LB OPTION AND MAY NOT BE PRESENT IN SOME 11/34 CONFIGURATIONS.
2. THE W9042 EXTENDER BD ASSEMBLY IS STORED IN THE BACKPLANE AND IS USED FOR SOME MAINTENANCE OPERATIONS: SEE D-UA-FP11-A-0.
3. THE CABLES ARE INSTALLED DURING MAINTENANCE ONLY AND ARE CLIPPED TO THE W9042 FOR STORAGE.
4. ITEMS #3 & 4 NOT SHOWN ON THIS ASSY.



REF	MODULE UTILIZATION	DMU-FP11-AU-1	5
1	POWER DISTRIBUTION BOARD	DCS-5410B-A-1A1	4
1	5V REGULATOR	PLA-M7441-B-0	3
1	1134A PROCESSOR	APL-KDI-EA-0	2
1	FLOATING POINT OPTION	D-UA-FP11-A-0	1

DESCRIPTION	QTY	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLE OF	11.5	11.5	11.5
ADJUSTMENT	11.5	11.5	11.5
SURFACE QUALITY	11.5	11.5	11.5
QUANTITY & VARIATION	11.5	11.5	11.5
DRN	11.5	11.5	11.5
CHK	11.5	11.5	11.5
ENG	11.5	11.5	11.5
PROJ	11.5	11.5	11.5
PROD	11.5	11.5	11.5
NEXT HIGHER ASSY			
EUA-1134A-0-0			
SCALE 1/1			
SHEET 1 OF 1			

REV	DESCRIPTION	DATE	BY
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2	1134A	11/34	11/34
3	1134A	11/34	11/34
4	1134A	11/34	11/34
5	1134A	11/34	11/34
6	1134A	11/34	11/34
7	1134A	11/34	11/34
8	1134A	11/34	11/34
9	1134A	11/34	11/34
10	1134A	11/34	11/34
11	1134A	11/34	11/34
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99	1134A	11/34	11/34
100	1134A	11/34	11/34

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NOTE:

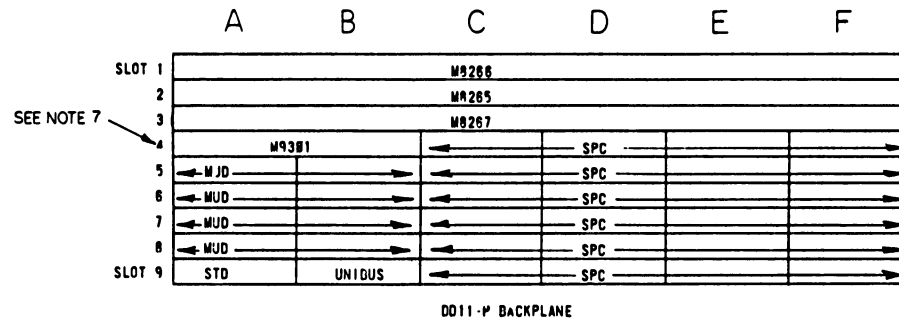
THIS MODULE UTILIZATION DRAWING SHOULD BE USED AS A CONFIGURATION GUIDE ONLY FOR 11/34 SYSTEMS THAT REQUIRE THE FP11-AU (e.g. 10.50 BOX 11/34 SYSTEMS) WITH A DD11-P PROCESSOR (M7265 AND M7266), THE M9266 (WHICH REPLACES THE M7265), M9265 (WHICH REPLACES THE M7266), AND THE M9267 (FP11-A), MUST OCCUPY THE FIRST THREE HEX SLOTS, WHILE THE M9381 MUST OCCUPY AN ADJACENT MODIFIED UNIBUS SLOT. THESE MODULES CONSUME 20.5 @+5VDC LEAVING ONLY 4.5A @+5VDC FOR OTHER SYSTEM AND USER OPTIONS. IT IS FOR THIS REASON THAT AN M7441 REGULATOR 32A @+5VDC AND 5410864-YA POWER DISTRIBUTION BOARD ARE INCLUDED IN THE FP11-AU. THE INCREASED AVAILABILITY OF CURRENT DUE TO THE M7441 REGULATOR ONLY PARTIALLY MITIGATES THE INCREASED CONSUMPTION OF CURRENT BY M9265, M9266, AND M9267 MODULES.

THE EXISTANCE OF ADDITIONAL MODULES MAY REQUIRE THAT THE MEMORIES, M9382, AND M7858 MODULES BE MOVED TO AN ADDITIONAL BACKPLANE.

NOTES:

1. NO VARIATION OF THE FP11-AU IS AVAILABLE FOR USE WITH 5.25" BOX 11/34 SYSTEMS.
2. CONSULT D-MU-DD11-P-2 TO DETERMINE HOW THE DD11-P SLOTS ARE WIRED.
3. THE CURRENTS LISTED ARE FOR REFERENCE ONLY, ACTUAL CURRENT CONSUMPTION MAY VARY.
4. NO MAJOR CONFIGURATION CHANGES ARE NECESSARY. ADDITIONAL MODULES MAY REQUIRE ANOTHER BACKPLANE.
5. THE M9842 EXTENDER BOARD SHOULD BE STORED IN THE BACKPLANE IN PLACE OF ONE OF THE G727 GRANT CONTINUITY CARDS.
6. BAIL-K'S THAT USE THE 5410864-YA-1 POWER DISTRIBUTION (I.E. 1134A, 11/34 WITH FP11-AU, AND SOME 11/04'S) AND HAVE ONE DD11-DK (OR AN ADDITIONAL DD11-CK) CAN ONLY HAVE THE +5 TO +5B JUMPER IN ONE OF THE BACK PANELS. IF TWO OF THE BACK PANELS HAVE THE JUMPER IN, THE +5V REGULATORS MAY BE CONNECTED TOGETHER. TYPICALLY THIS JUMPER IS IN THE FIRST BACK PANEL, BUT IT MAY BE PLACED IN ONE OF THE OTHER BACK PANELS IF DEEMED NECESSARY FOR POWER REQUIREMENTS.
7. EITHER M9381 OR M9312 MAY BE USED BUT NOT BOTH.

		M7265/M7266 (10.5 A)	M9265/M9266 (11.5 A)	M9267 (7.8 A)	M9381 (2.8 A) SEE NOTE 7	M9382 (1.2 A)	M7858 (1.8 A)	DL11-W (2.8 A)	KY11-LB (3.8 A)	MS11-E (2.8 A)	MM11-D (3.8 A)	G727 (8.8 A)	TOTAL +5VDC CURRENT WITH M7265, M7266	TOTAL +5VDC CURRENT WITH M9265, M9267	NOTE: TOTAL +5VDC CURRENT WITH M9265, M9267, M9382, M7858, AND MEMORIES MOVED TO ANOTHER BACKPLANE.
5.25" BOX	11/34-DC(D)	1	-	-	1	1	-	-	-	1	-	6	16.7	-	-
	11/34-HC(D)	1	-	-	1	1	-	-	-	-	1	6	17.7	-	-
	11/34-LC(D)	1	-	-	1	1	-	-	-	2	-	5	19.7	-	-
	11/34-MC(D)	1	-	-	1	1	-	-	-	-	2	5	20.7	-	-
10.5" BOX	11/34-LH(J)	1	-	-	1	1	-	-	-	2	-	5	19.7	26.7	4 20.5
	11/34-DH(J)	1	-	-	1	1	-	-	-	-	-	6	16.7	24.7	4 20.5
	11/34-MH(J)	1	-	-	1	1	-	-	-	-	2	5	20.7	26.7	4 20.5
	11/34-HH(J)	1	-	-	1	1	-	-	-	-	-	6	17.7	25.7	4 20.5
	11/34-LH(N)	1	-	-	1	1	-	-	-	2	-	4	20.7	29.7	4 22.5
	11/34-DH(N)	1	-	-	1	1	-	-	-	-	-	5	18.7	26.7	4 22.5
	11/34-MM(N)	1	-	-	1	1	-	-	-	-	2	4	22.7	30.7	4 22.5
	11/34-HM(N)	1	-	-	1	1	-	-	-	-	-	5	19.7	27.7	4 22.5



QUANTITY & VARIATION	DESCRIPTION	DWG./PART NO.	ITEM NO.									
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES											
REMOVE BURRS AND BREAK SHARP CORNERS	ANGLES 90° ± 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES									
DO NOT SCALE DWG	SURFACE QUALITY IN MICROINCHES	(CHECK ONE)	OVER 0.2 TO 0.3	OVER 0.3 TO 0.5	OVER 0.5 TO 0.7	OVER 0.7 TO 1.0	OVER 1.0 TO 1.5	OVER 1.5 TO 2.0	OVER 2.0 TO 3.0	OVER 3.0 TO 4.0	OVER 4.0 TO 6.0	OVER 6.0 TO 10.0
MATERIAL	MEDIUM	PREPARED	± 0.012	± 0.010	± 0.008	± 0.012	± 0.015	± 0.020	± 0.025	± 0.030	± 0.040	± 0.050
FINISH	DRN. J. B. 10/76			FIRST USED ON 1134								
	CHK'D J. B. 10/76			TITLE MODULE UTILIZATION FP11-AU								
	ENG. J. B. 10/76			SIZE D CODE MU NUMBER FP11-AU-1 REV. B								
	PROD. J. B. 10/76			SHEET 1 OF 2								

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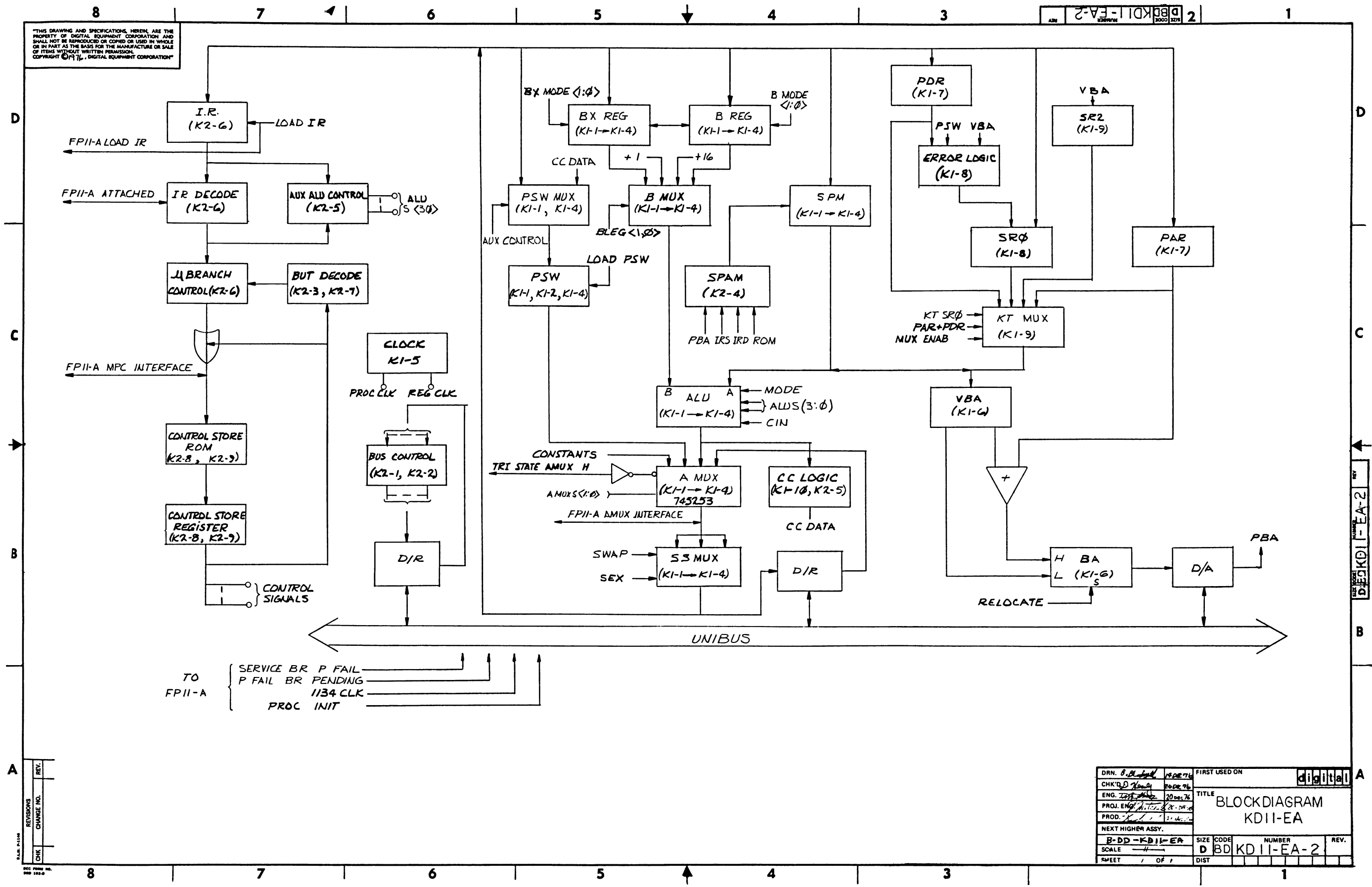
B-TC-KD11-EA-3	1134A PROCESSOR (TC)
D-BD-KD11-EA-2	BLOCK DIAGRAM (KD11-EA)
D-FD-KD11-EA-1	FLOW DIAGRAM (KD11-EA)
D-UA-M8266-Ø-Ø	CONTROL
B-PL-M8266-Ø-Ø	CONTROL (PL)
D-CS-M8266-Ø-1	CONTROL (CS)
D-UA-M8265-Ø-Ø	DATA PATH
B-PL-M8265-Ø-Ø	DATA PATH (PL)
D-CS-M8265-Ø-1	DATA PATH (CS)

KD11-EA

PRINT SET ORDER NO.
MP00192

EN-01124-16-N676-(327

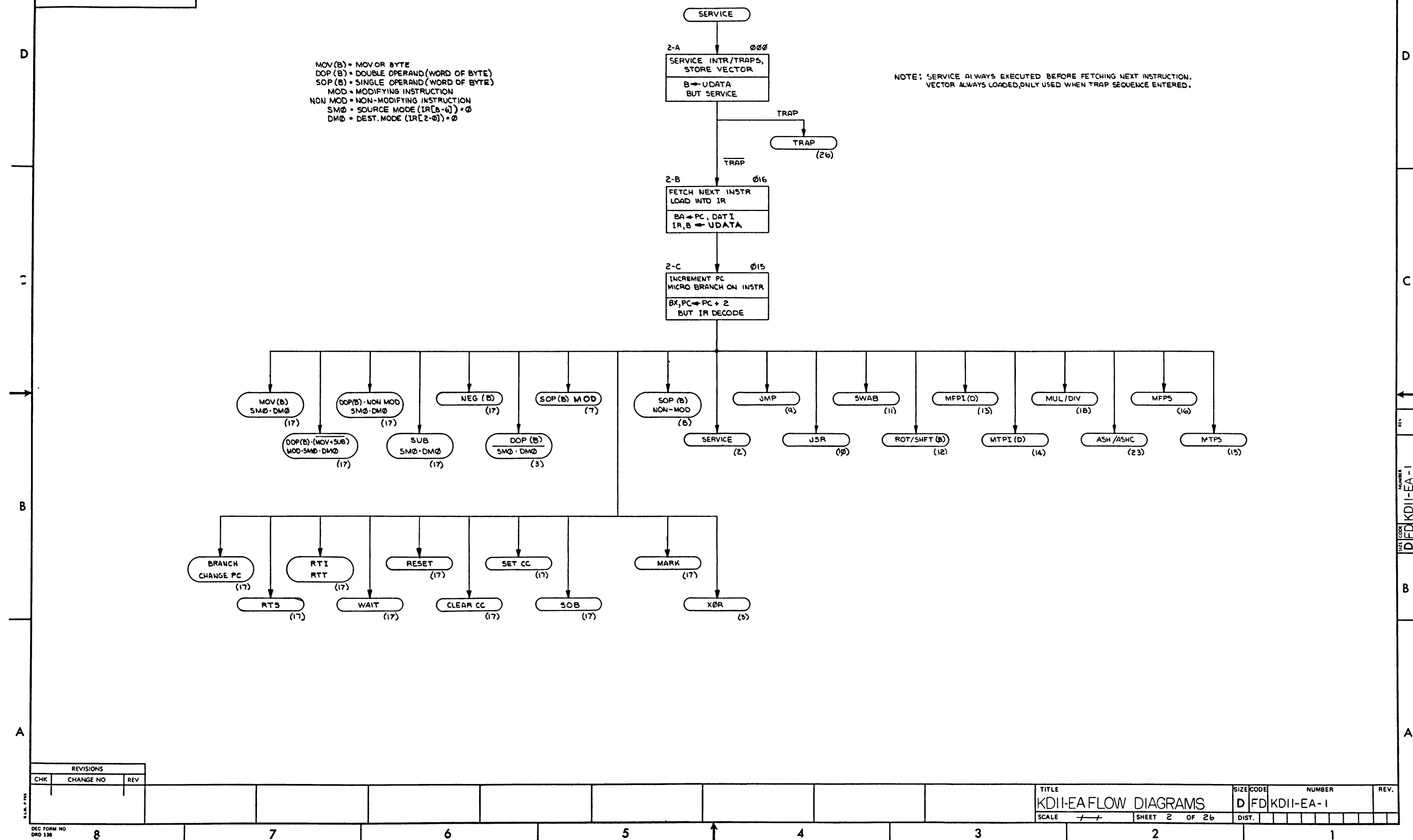
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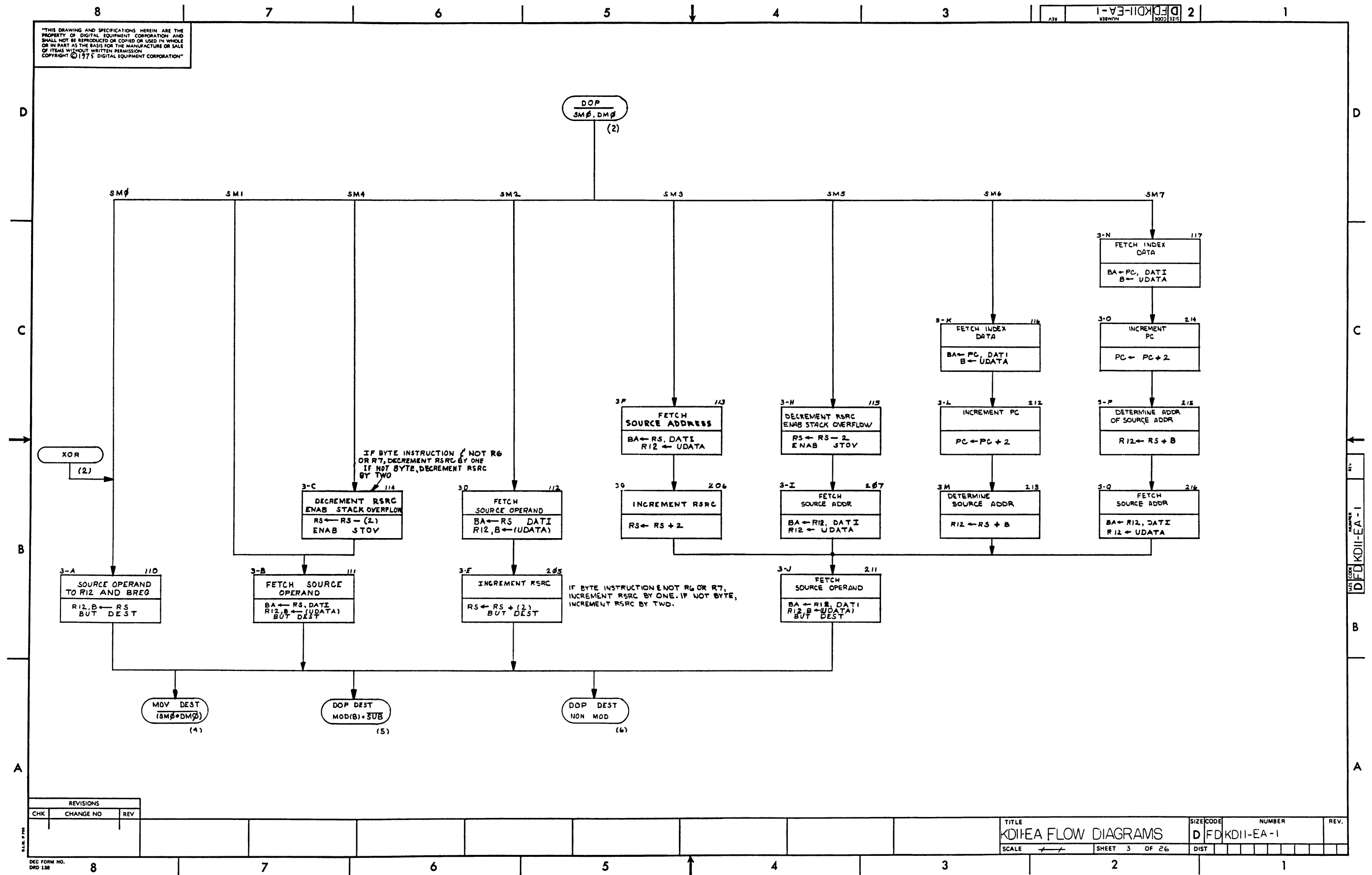


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DRN. <i>B. B. 100</i>	DATE <i>10/27/76</i>	FIRST USED ON	<i>digital</i>
CHK'D <i>10/27/76</i>	CODE <i>76</i>	TITLE	BLOCK DIAGRAM
ENG. <i>10/27/76</i>	DATE <i>76</i>		KD11-EA
PROJ. ENG. <i>10/27/76</i>			
PROD. <i>10/27/76</i>			
NEXT HIGHER ASSY.			
<i>B-DD-KD11-EA</i>	SIZE	CODE	NUMBER
SCALE <i>1/1</i>	<i>D</i>	<i>BD</i>	<i>KD11-EA-2</i>
SHEET <i>1</i>	OF <i>1</i>	DIST	

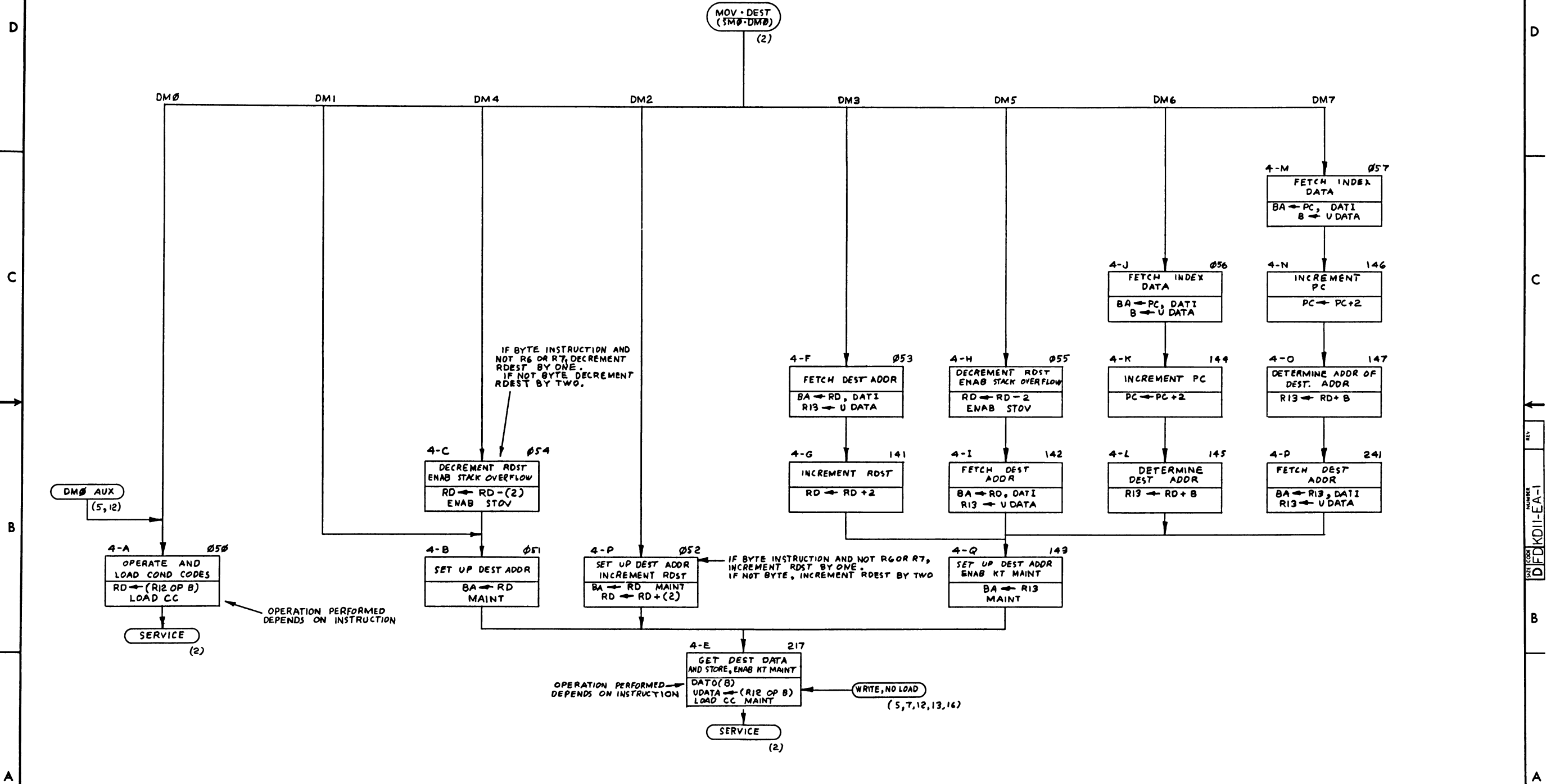
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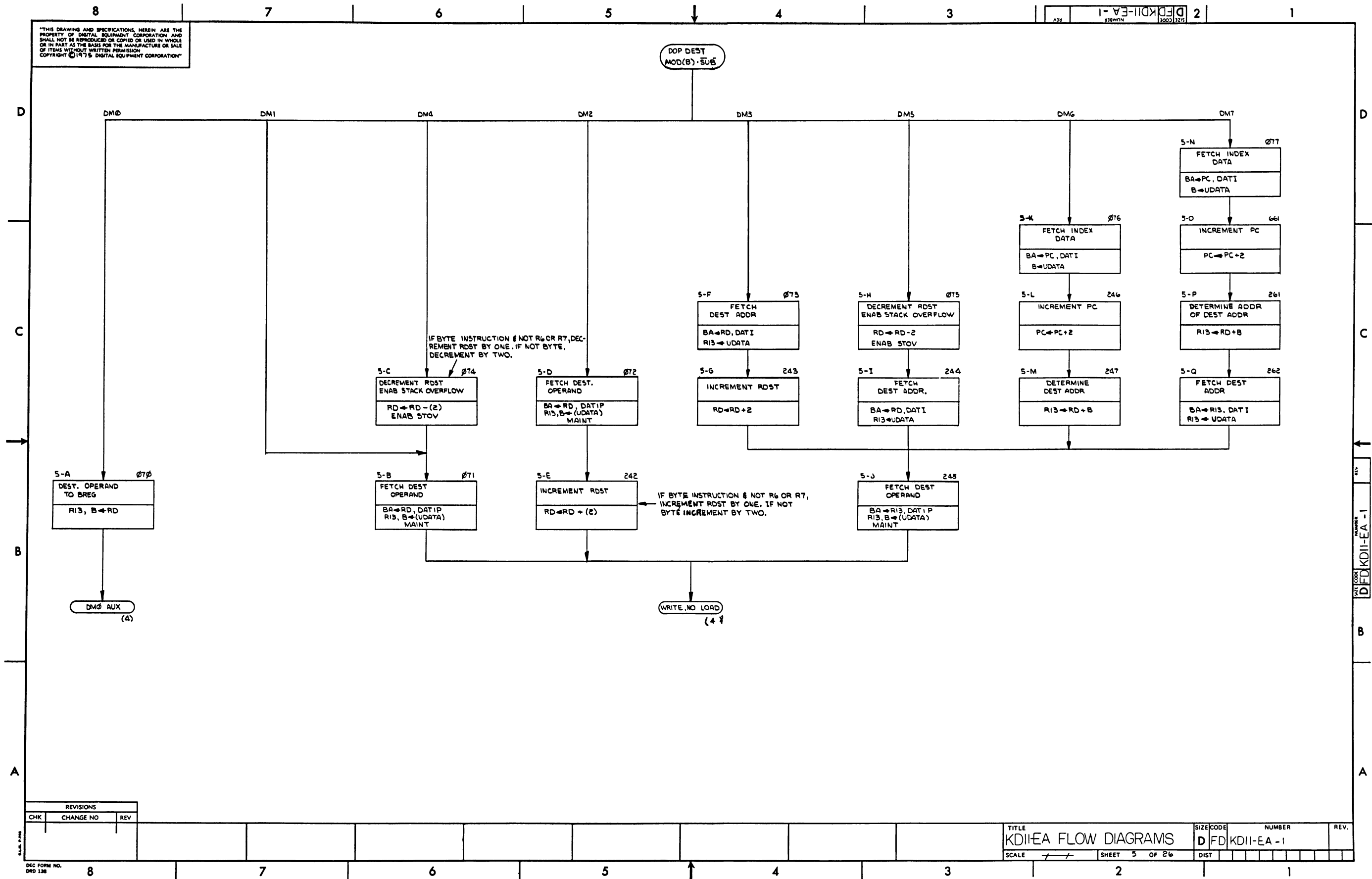
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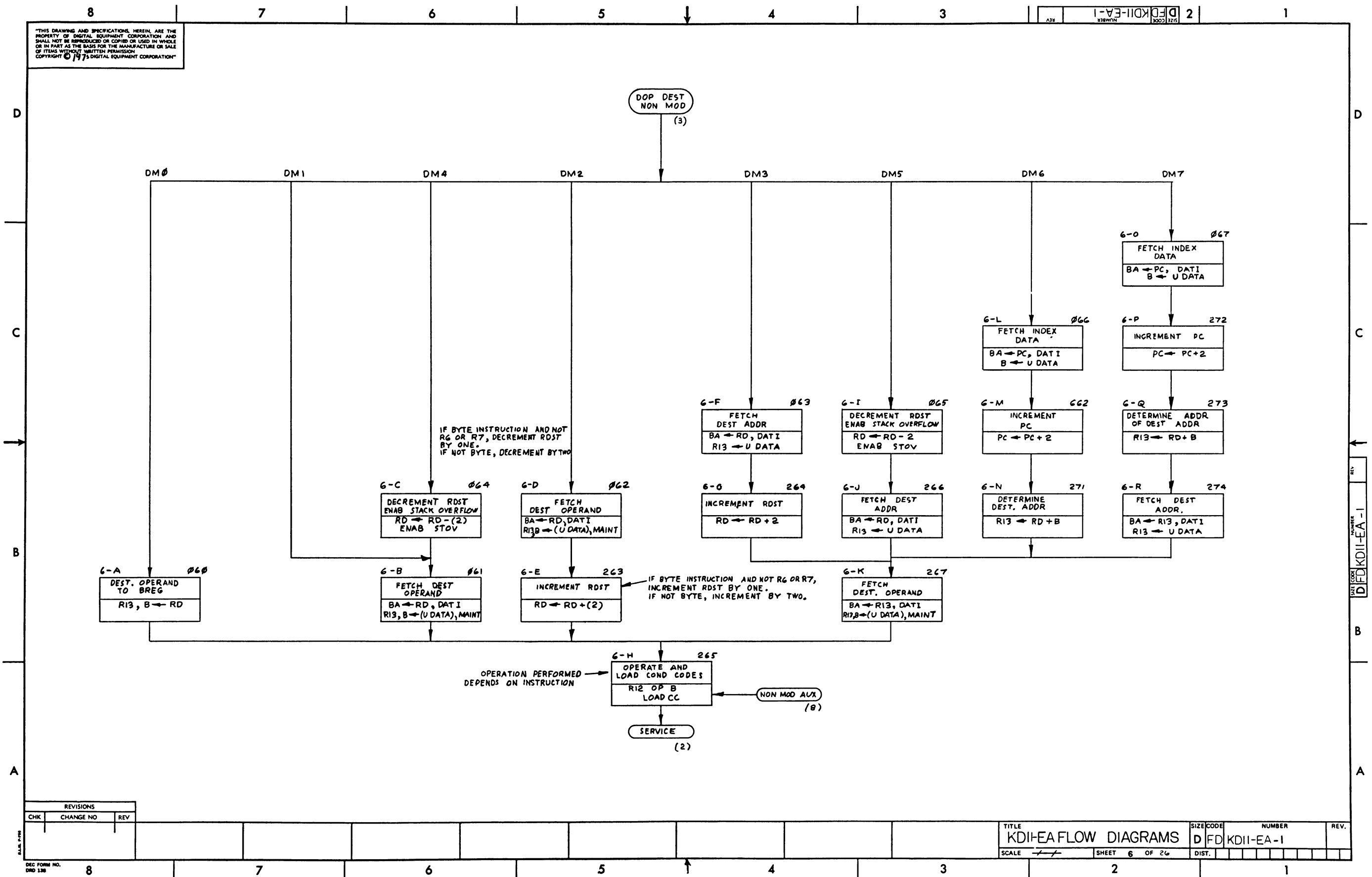
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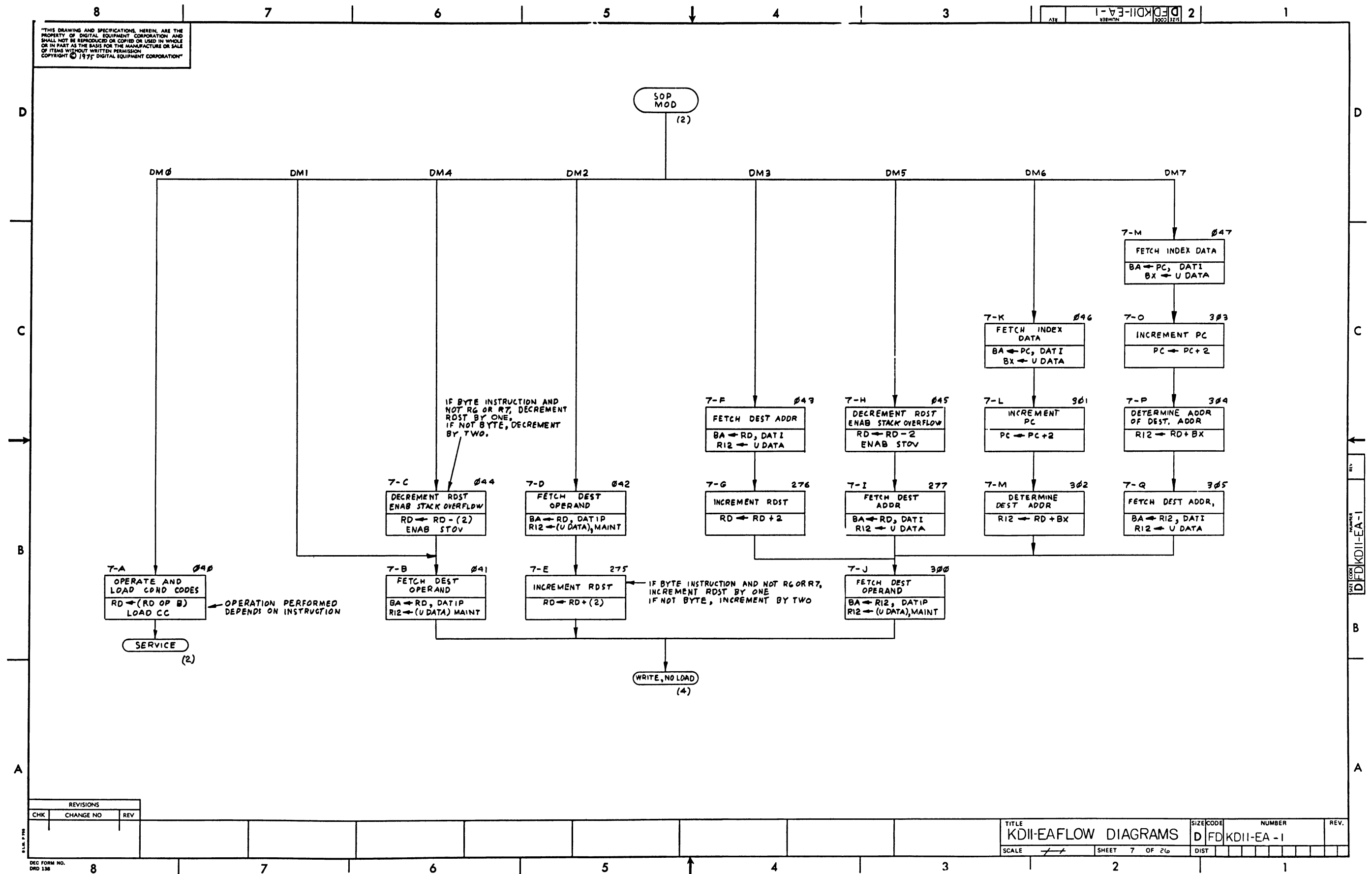


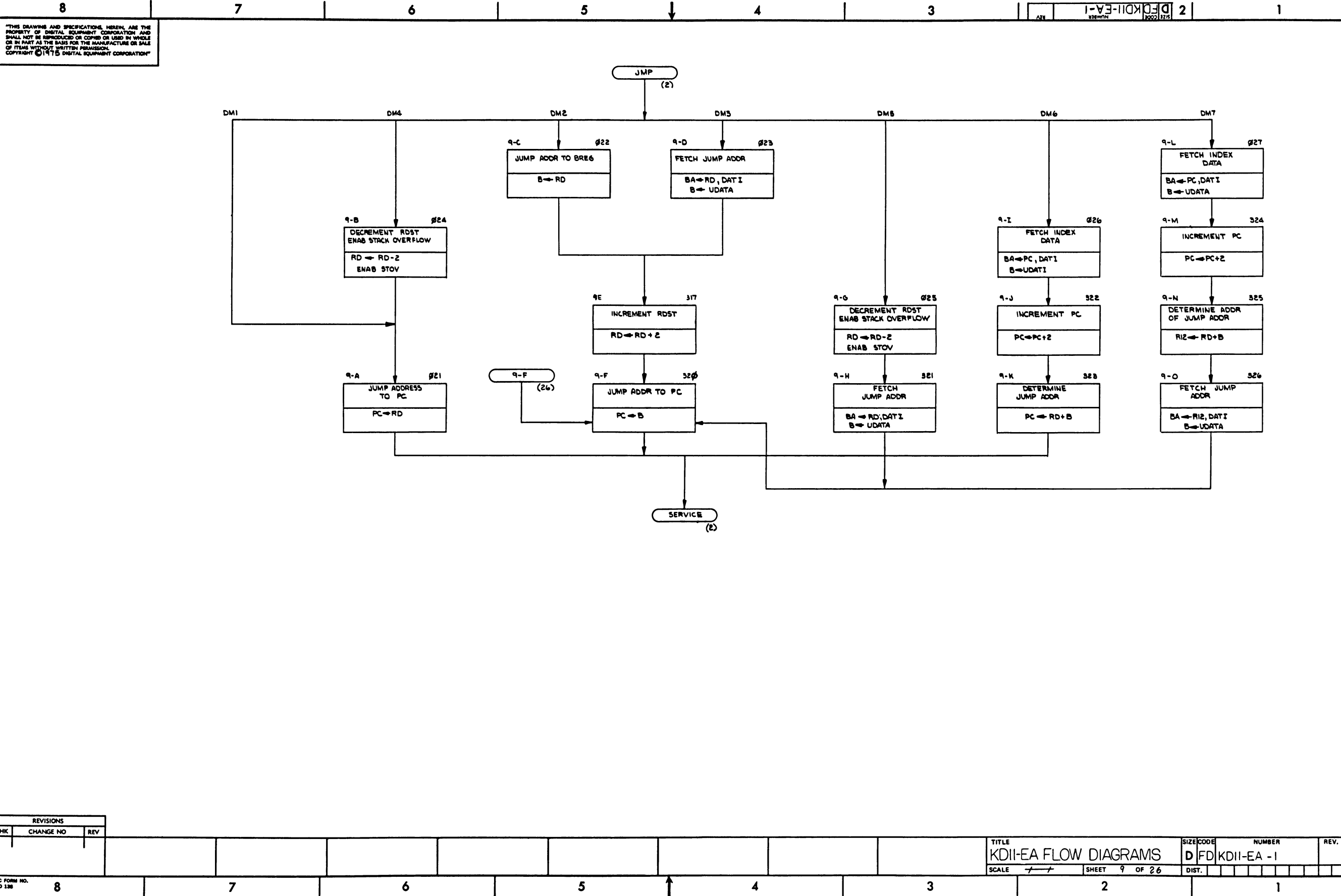
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CHK	CHANGE NO	REV

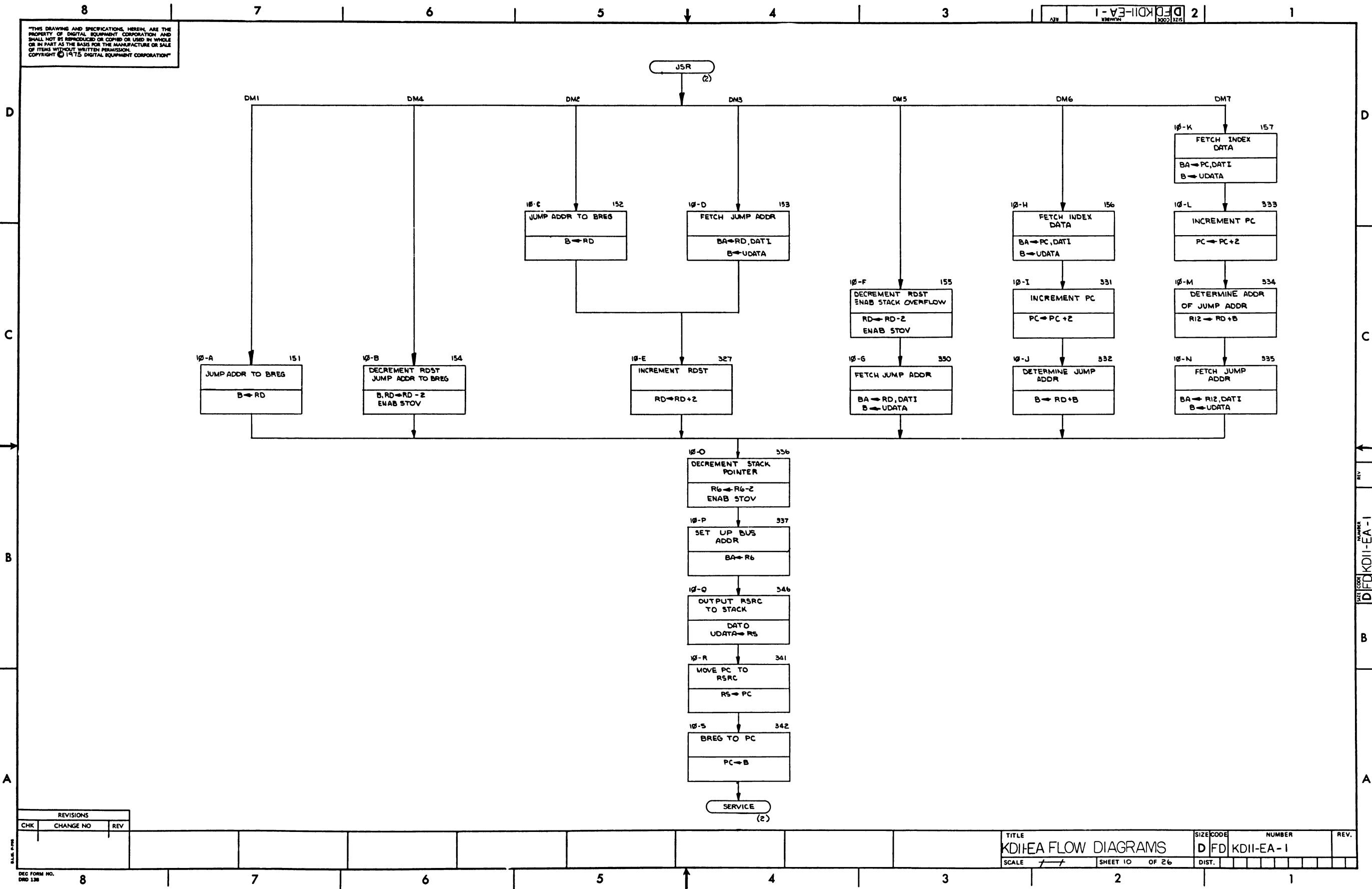
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SCALE		SHEET 4	OF 26	DIST.





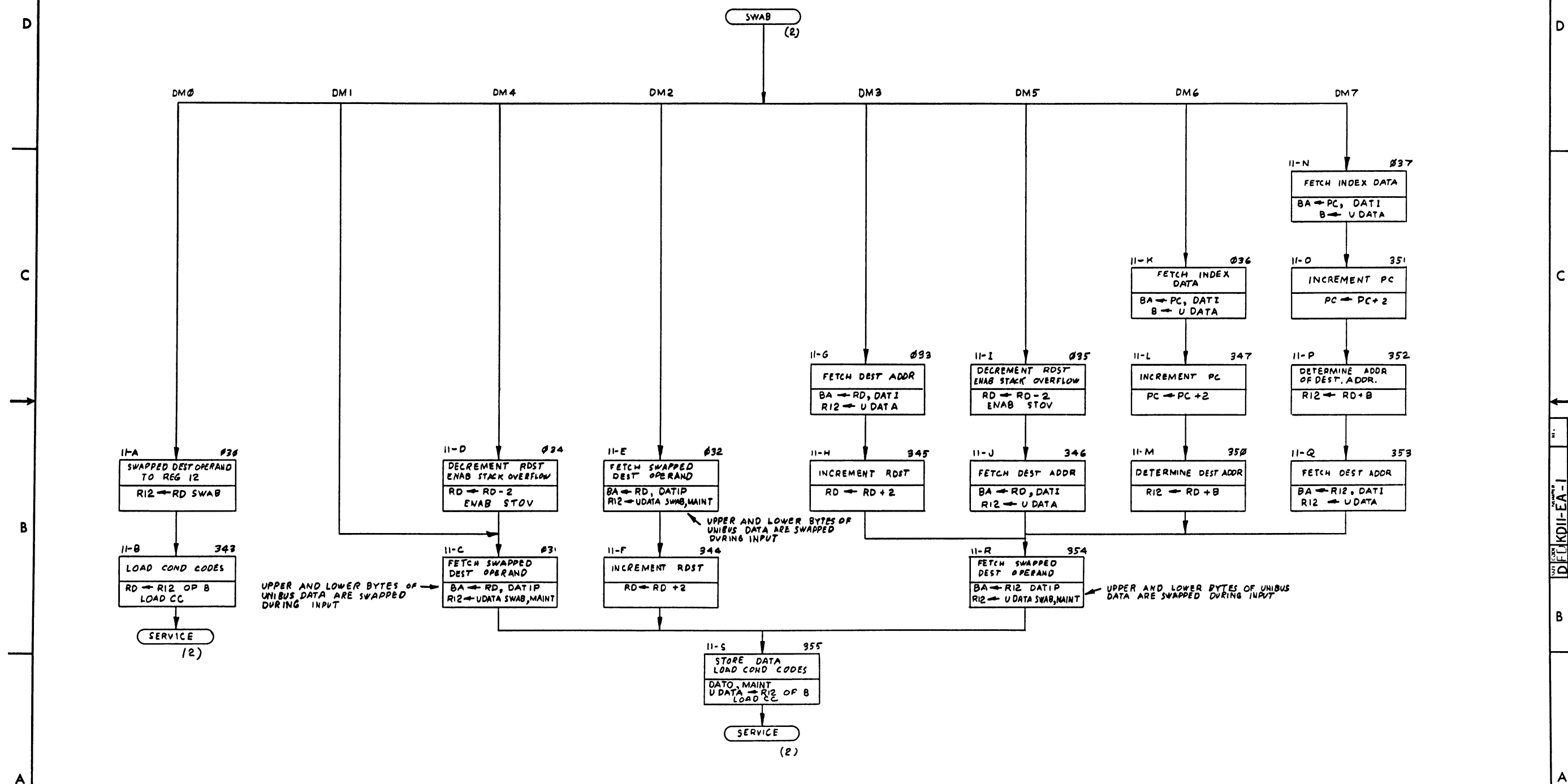




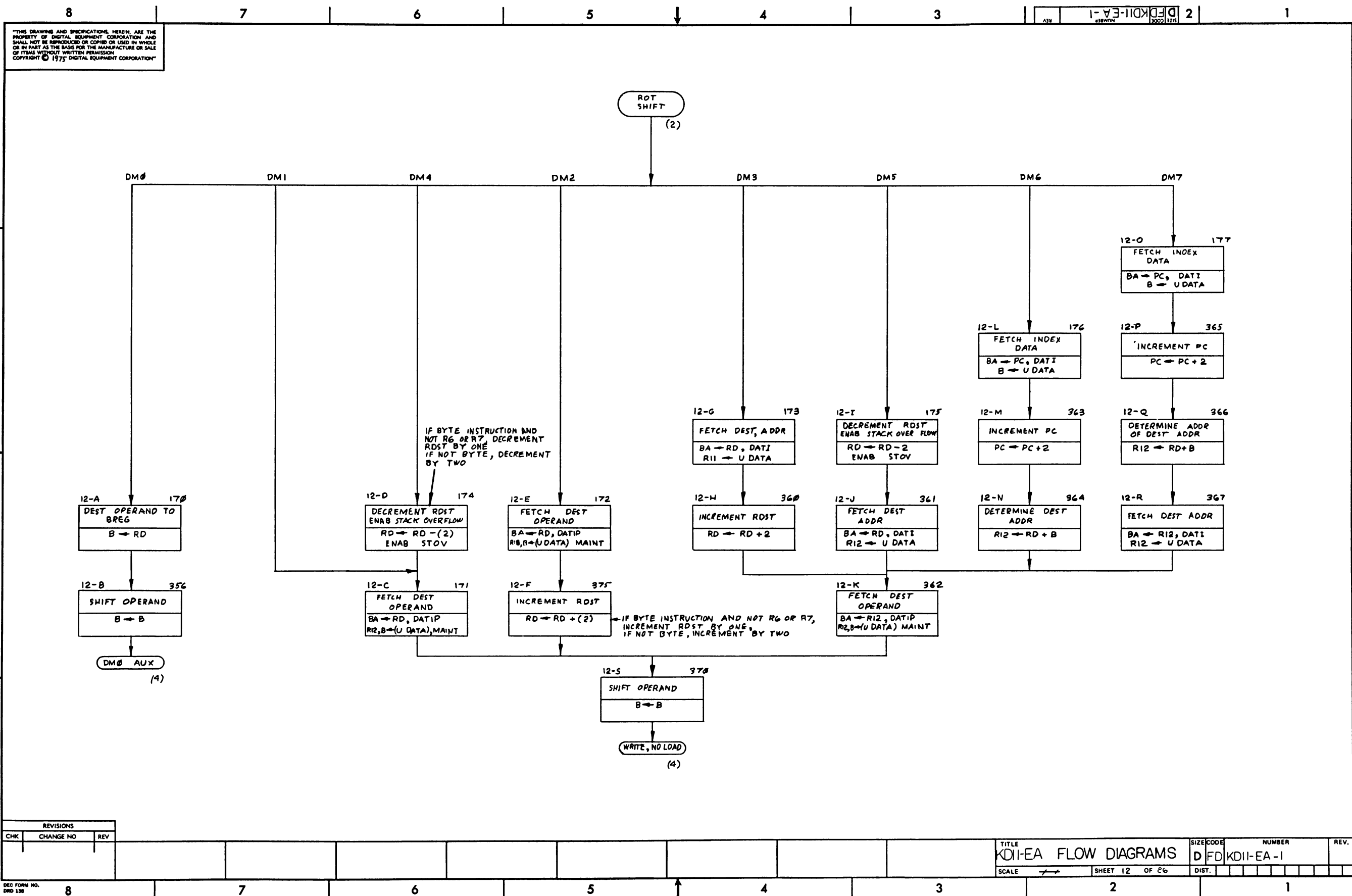


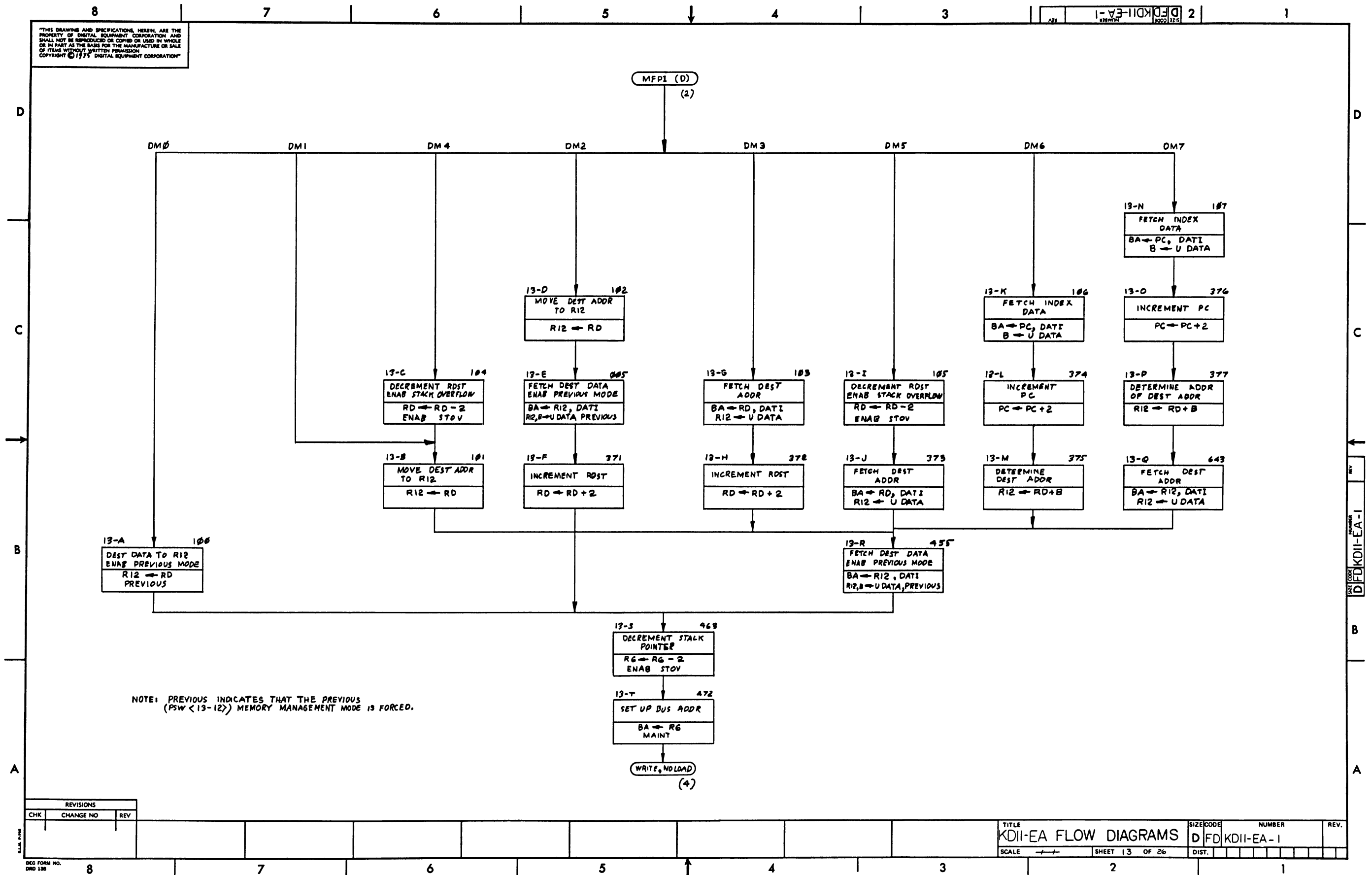
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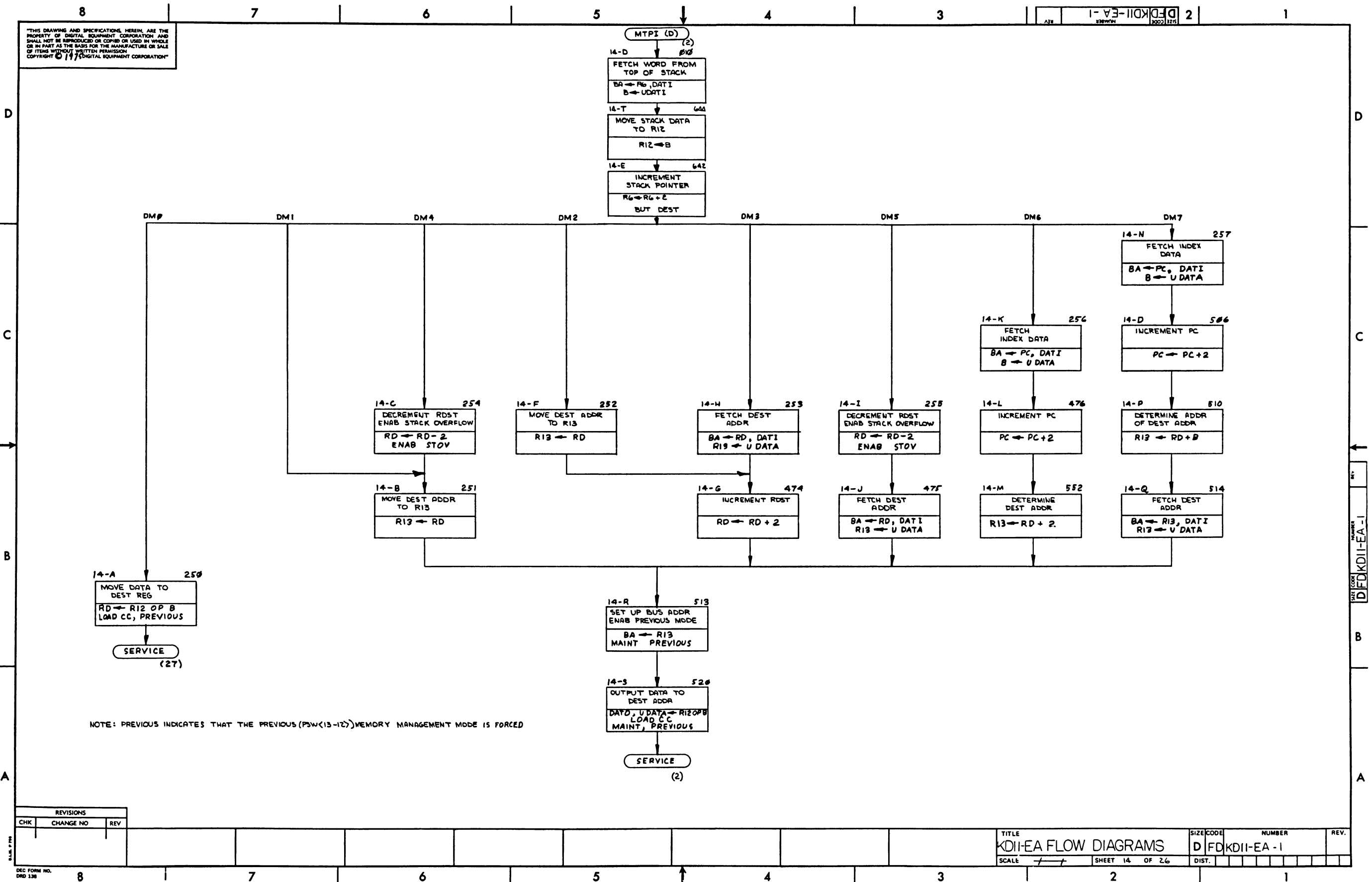
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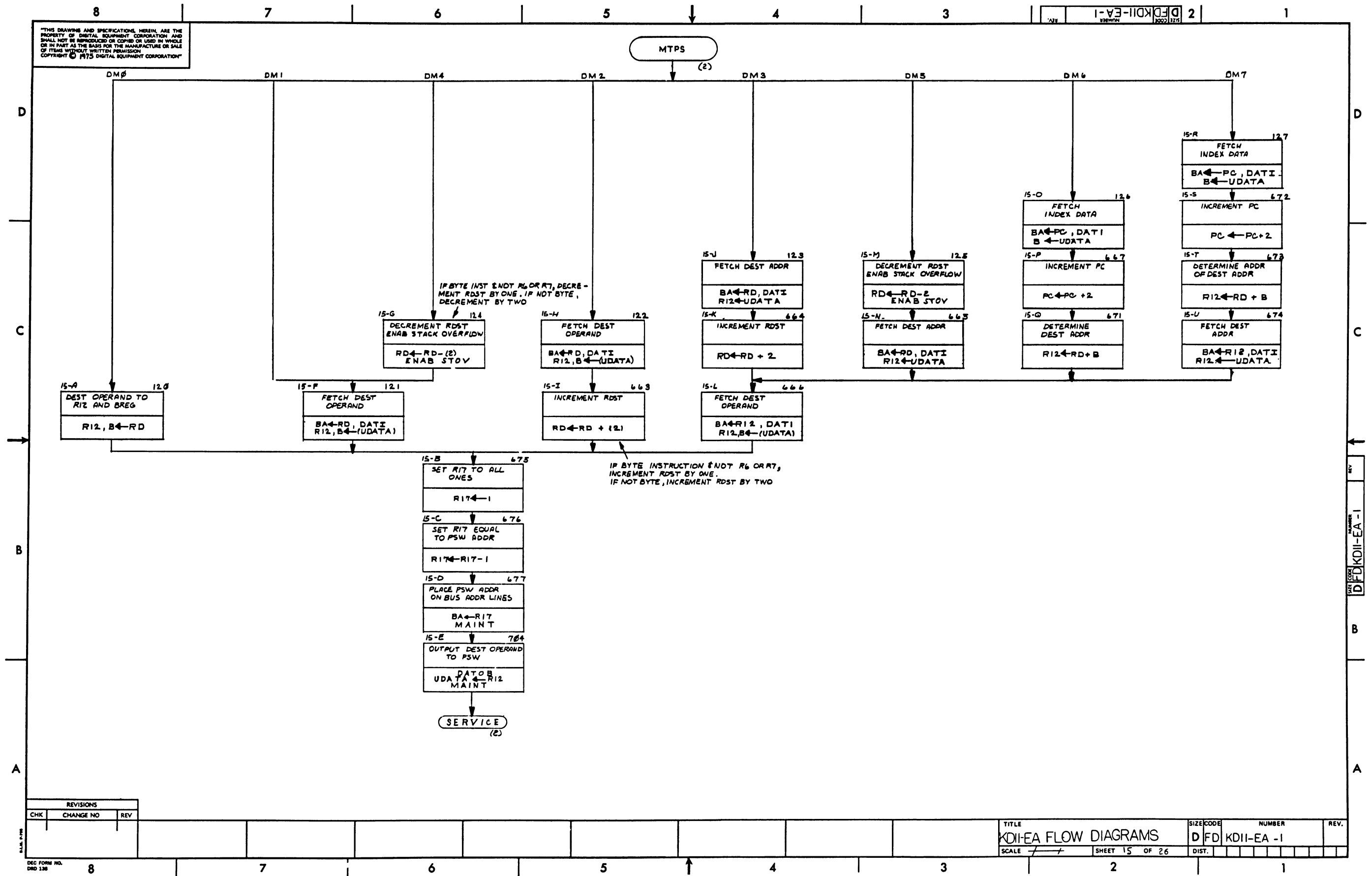


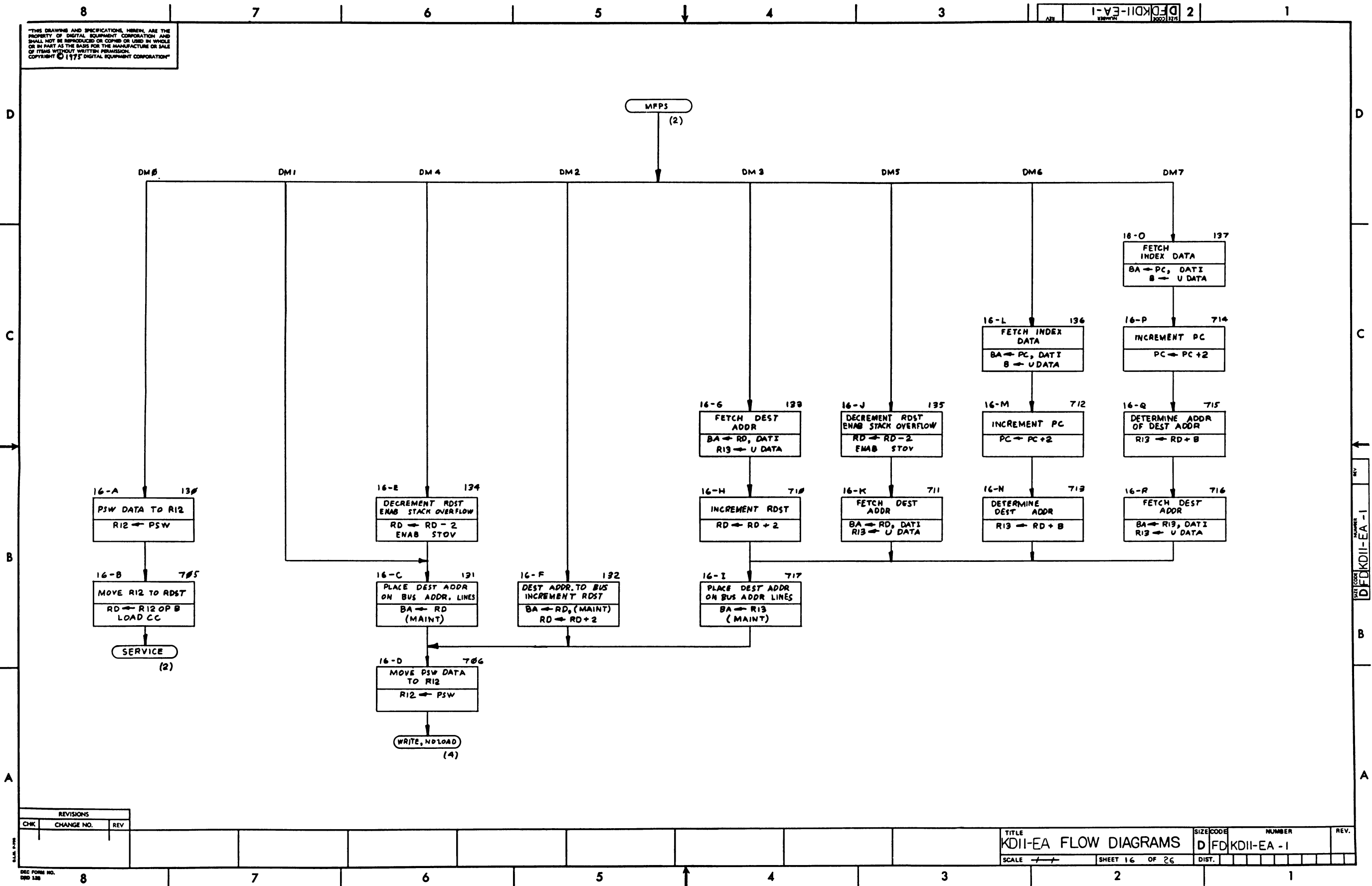
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CHK	CHANGE NO	REV



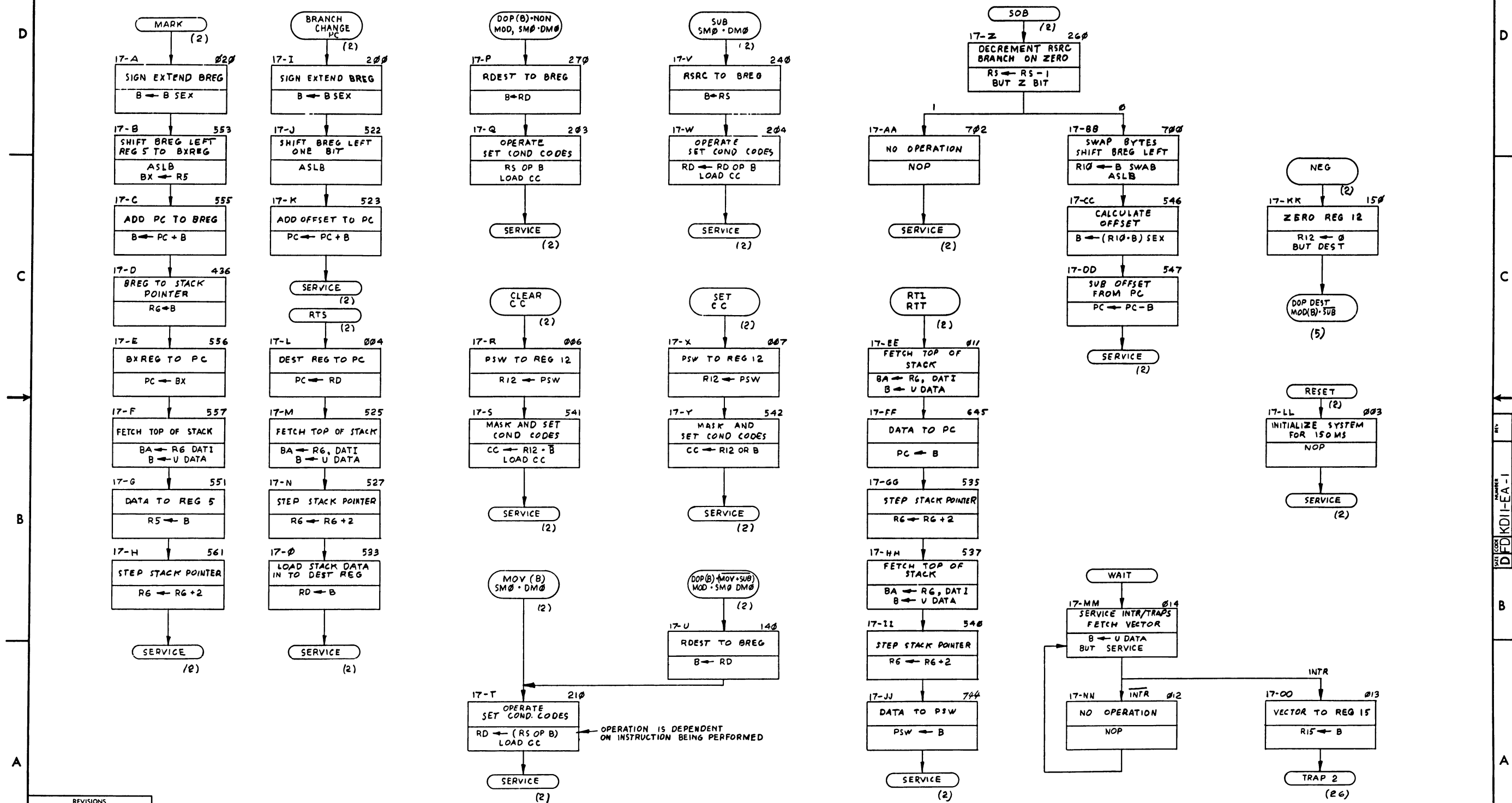




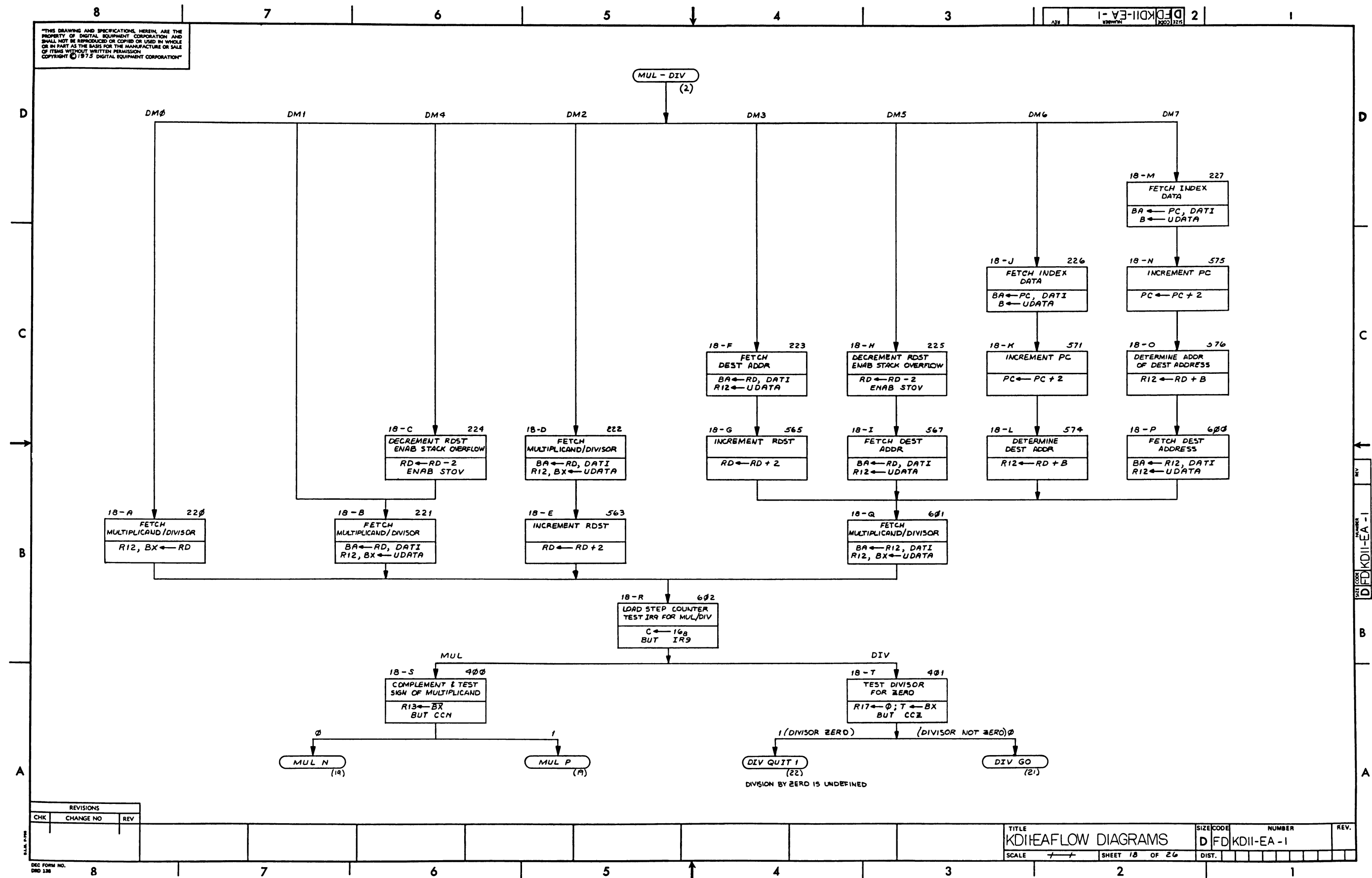


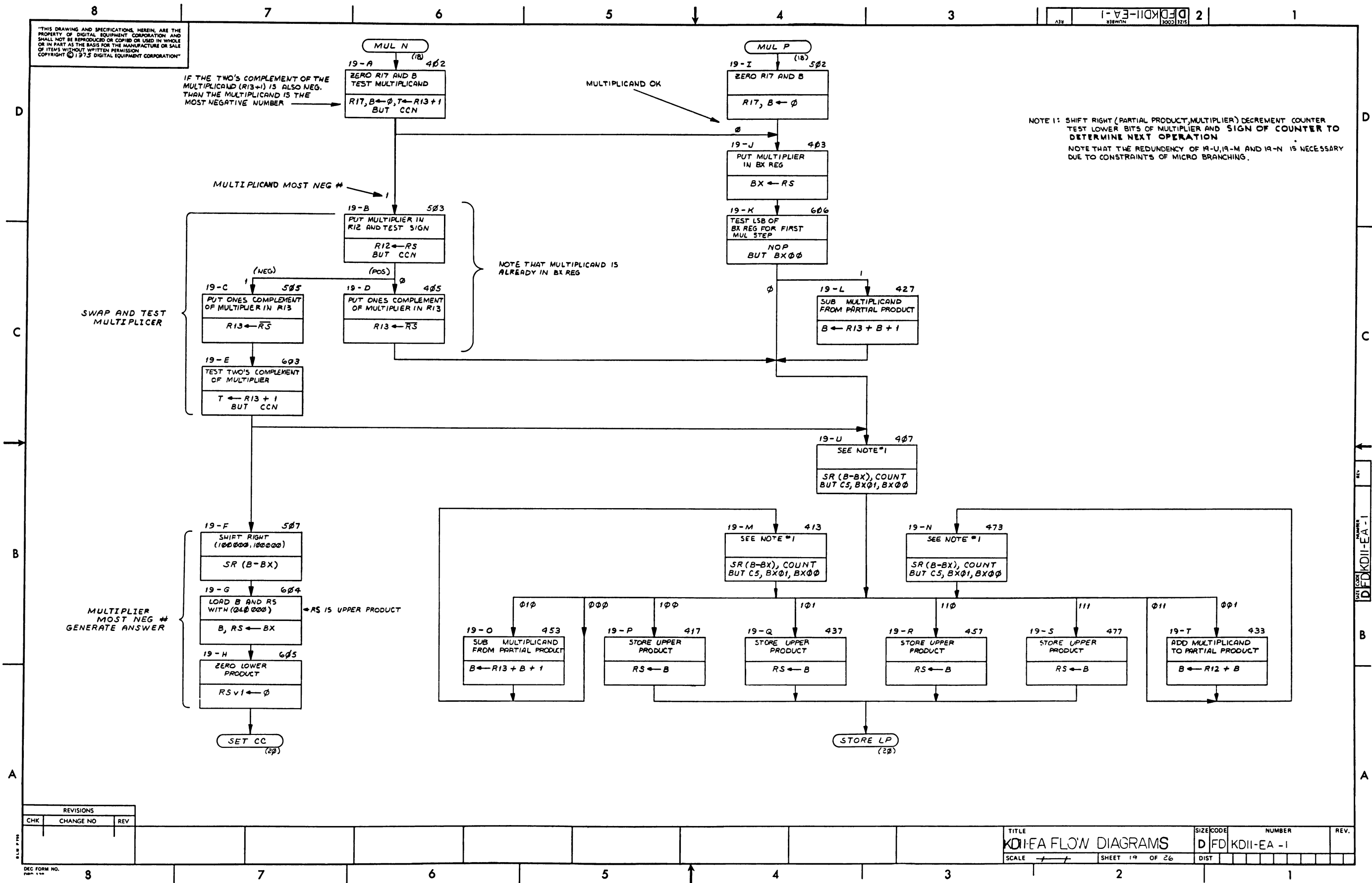


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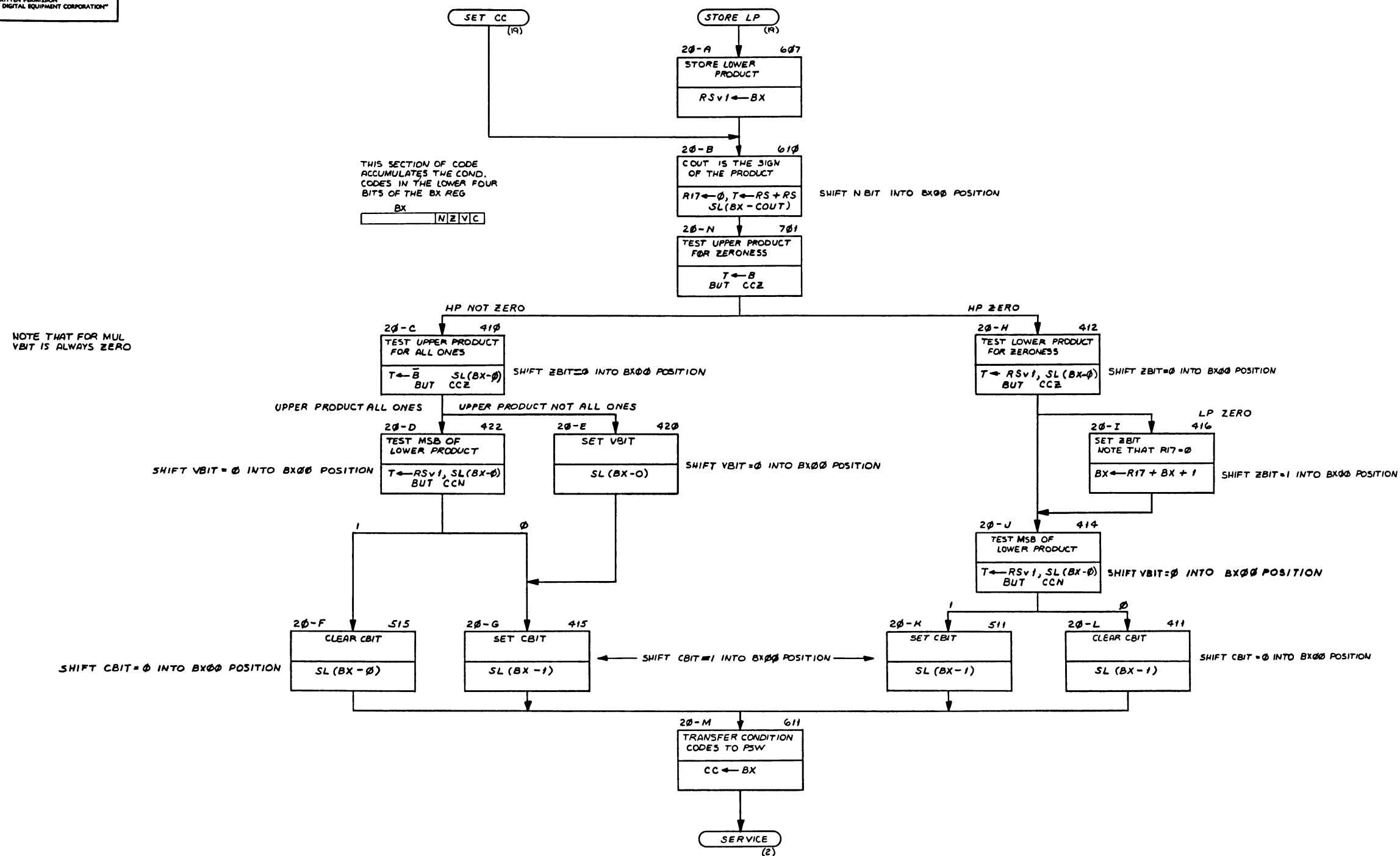
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CHK	CHANGE NO	REV



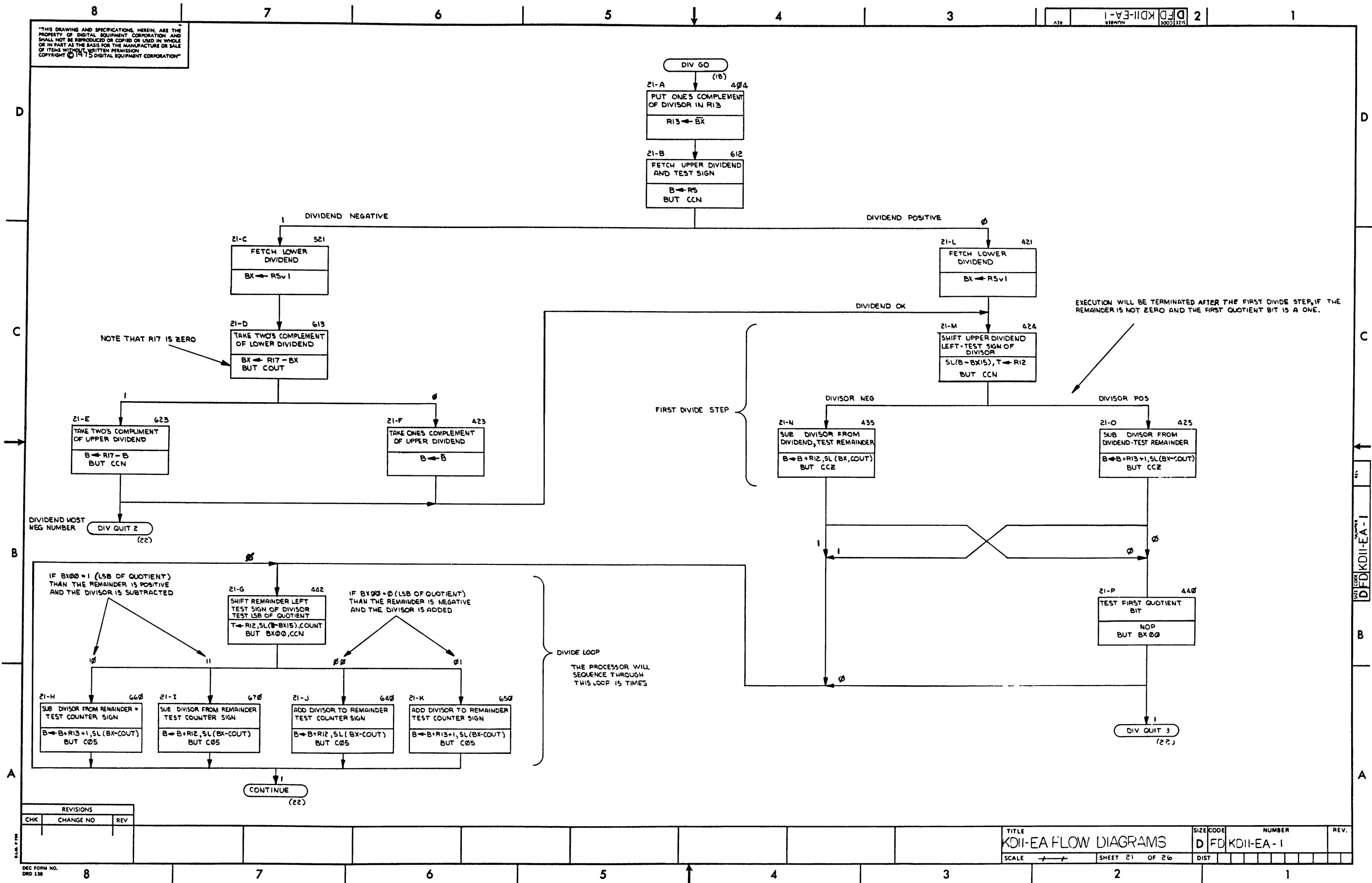


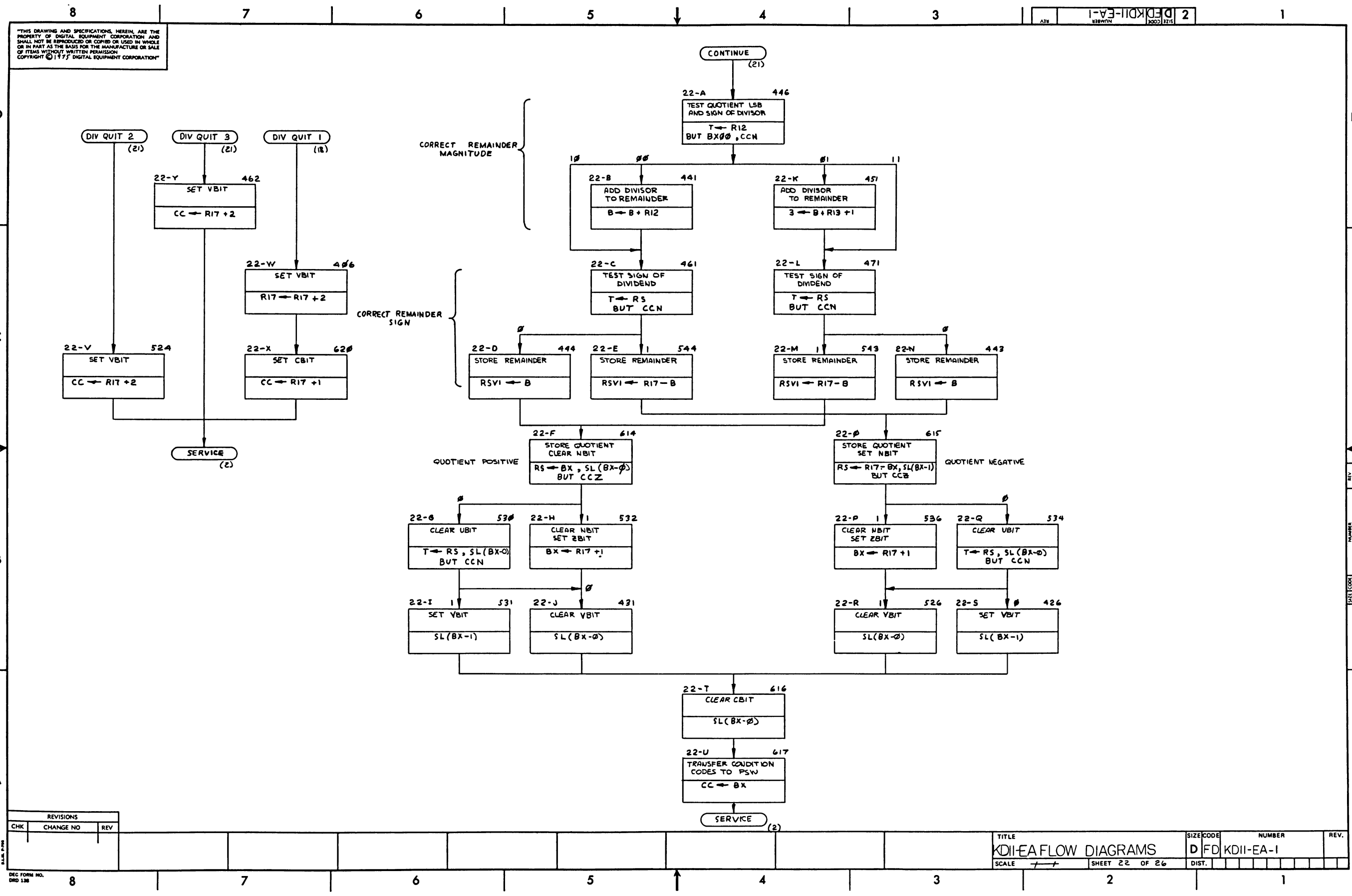
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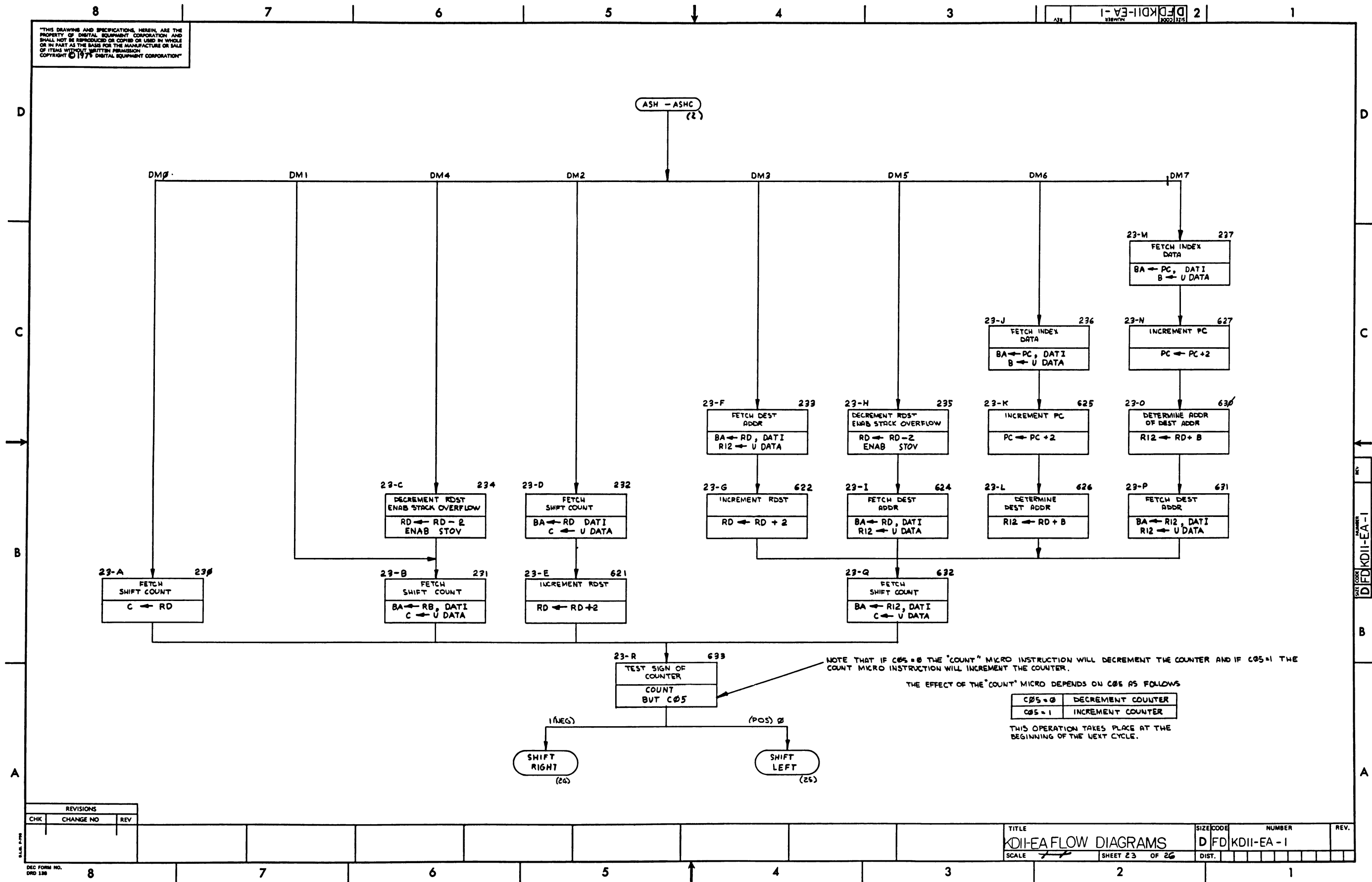
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CODE	FDKD11-EA-1
NUMBER	
REV	

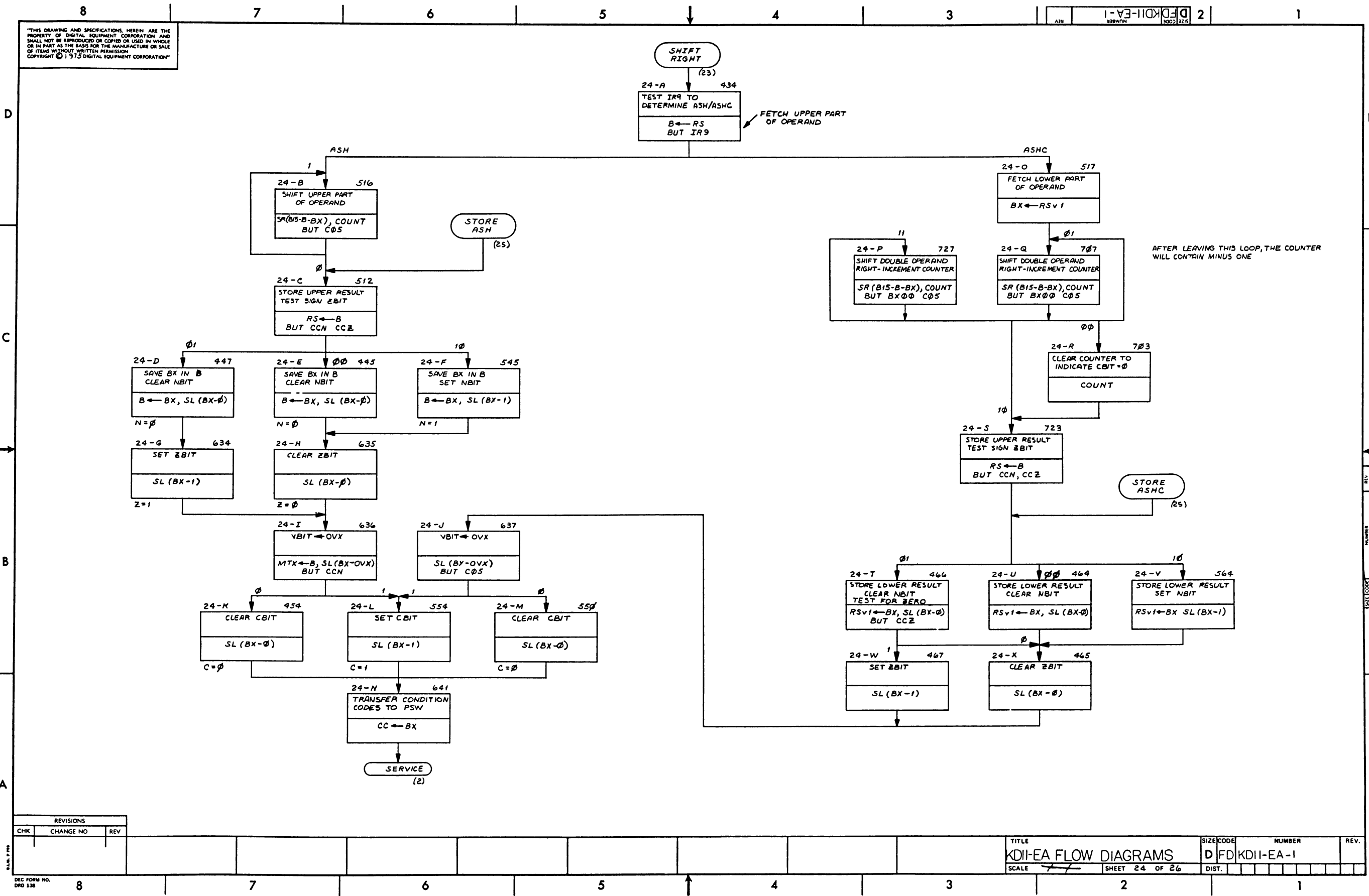


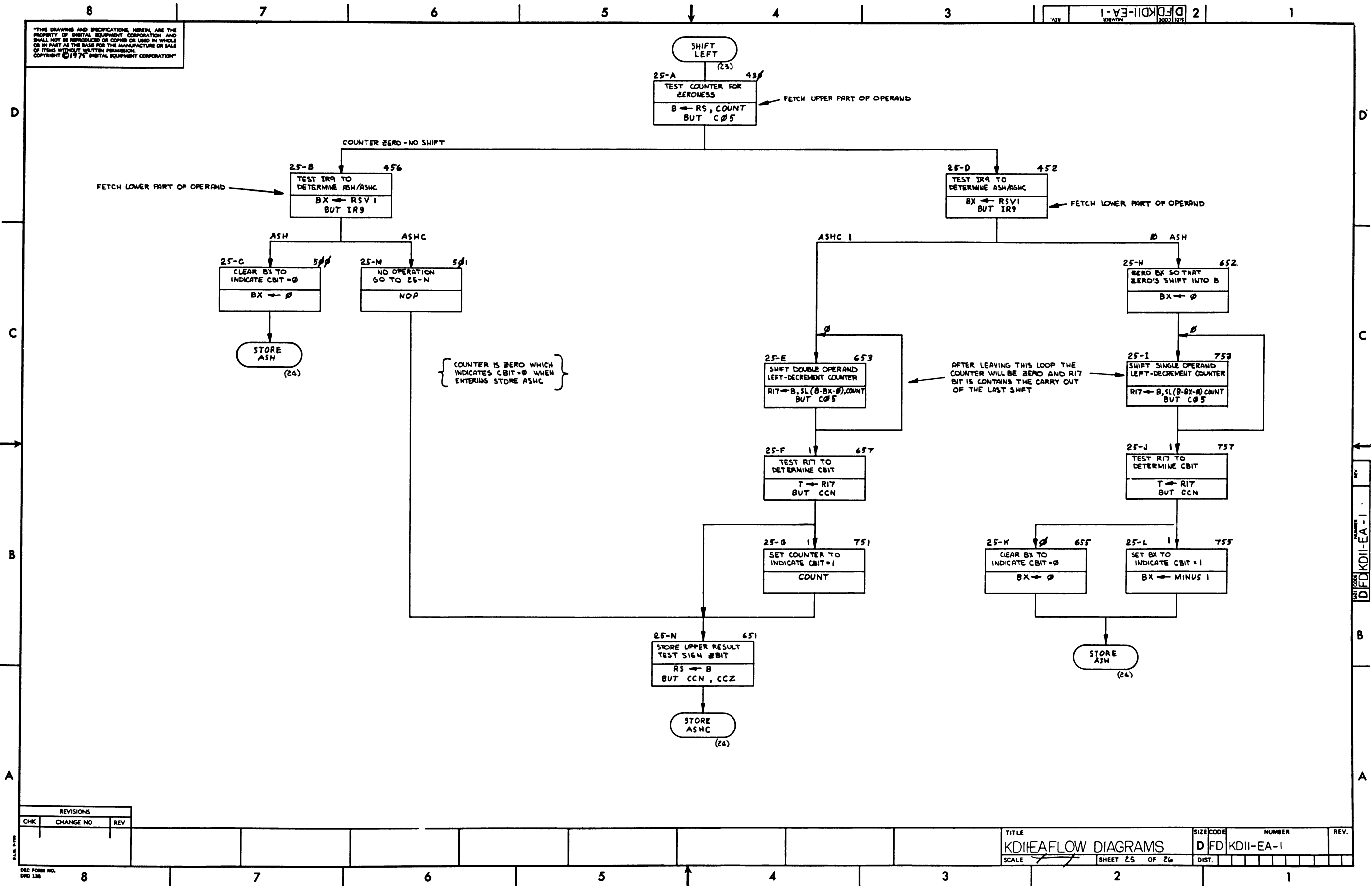
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CHK	CHANGE NO	REV

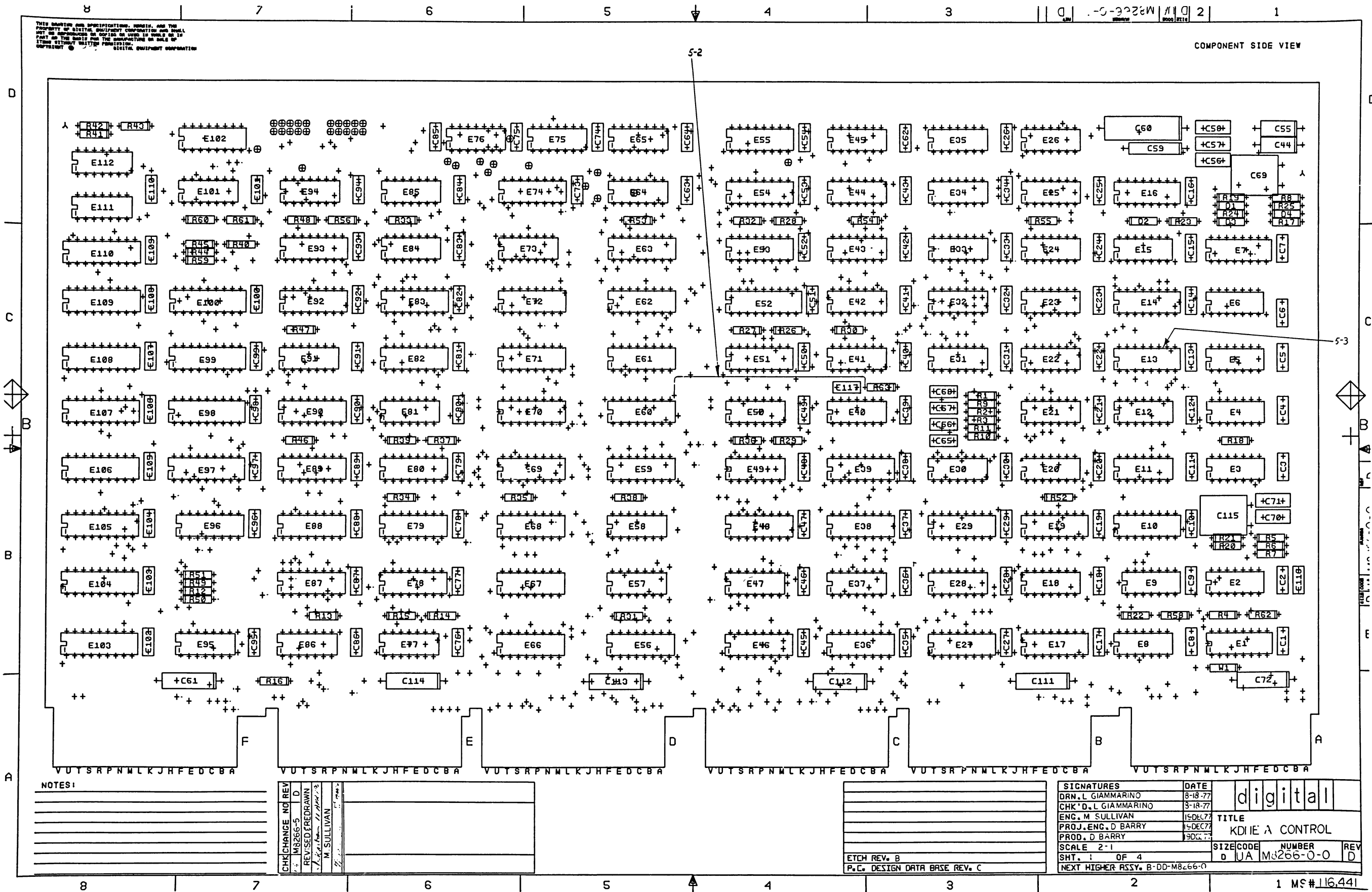












CHANGE NO	REV
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4	1/1/77
5	M. SULLIVAN

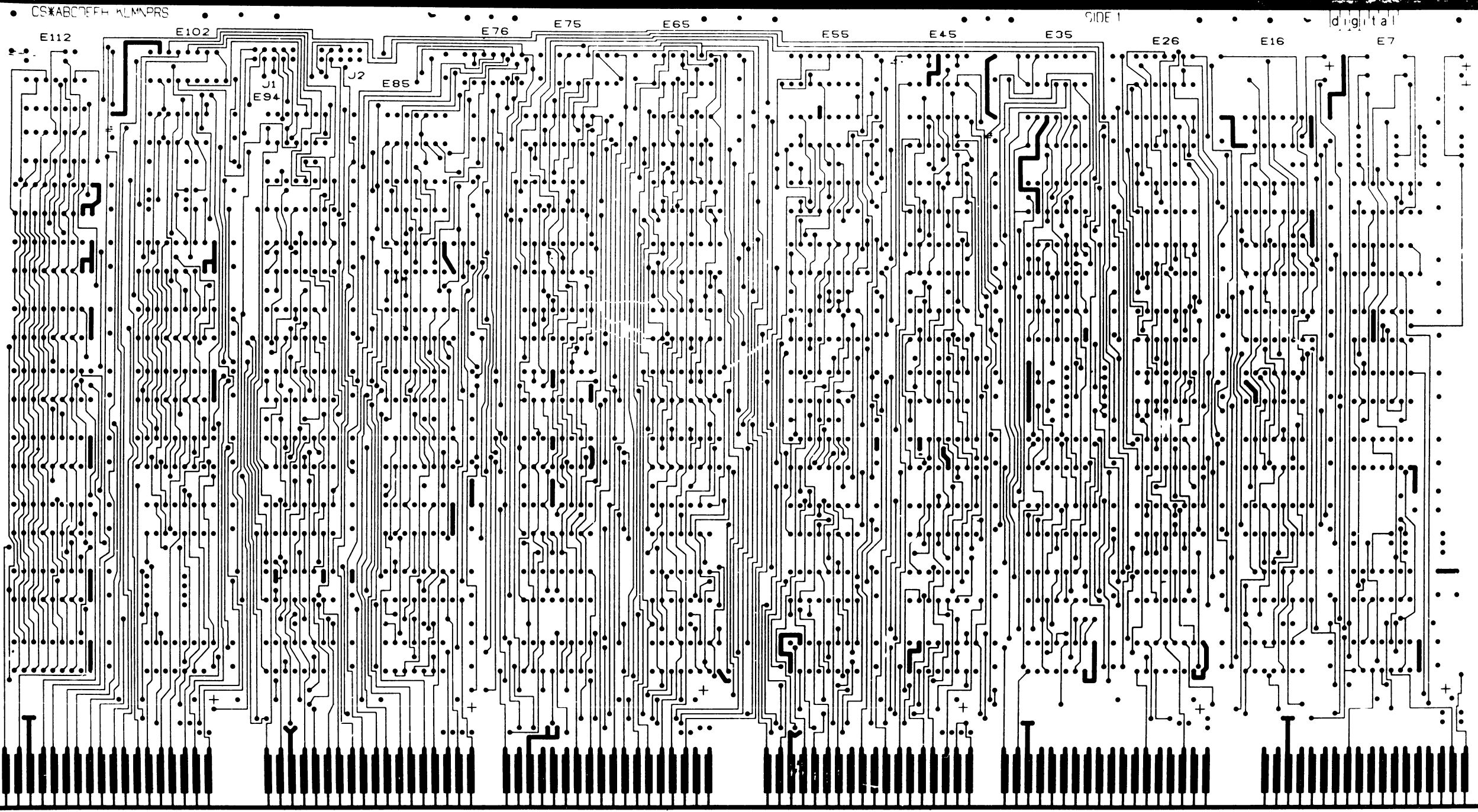
ETCH REV. B
P.C. DESIGN DATA BASE REV. C

SIGNATURES	DATE
DRN. L. GIAMMARINO	8-18-77
CHK'D. L. GIAMMARINO	8-18-77
ENG. M. SULLIVAN	15-DEC-77
PROJ. ENG. D. BARRY	15-DEC-77
PROD. D. BARRY	15-DEC-77

TITLE	digital
KDIE A CONTROL	
SCALE 2:1	SIZE CODE
SHT. 1 OF 4	NUMBER
NEXT HIGHER ASSY. B-DD-M8266-0	REV

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LAYER 1



REV	DATE	BY

TITLE	KD11E-A CONTROL	DATE	118265 00	REV	D
SCALE	2 1	LET	2 4		

93441

L4

KD11E - A CONTROL
5012434 BP2 M8266

SIDE 2

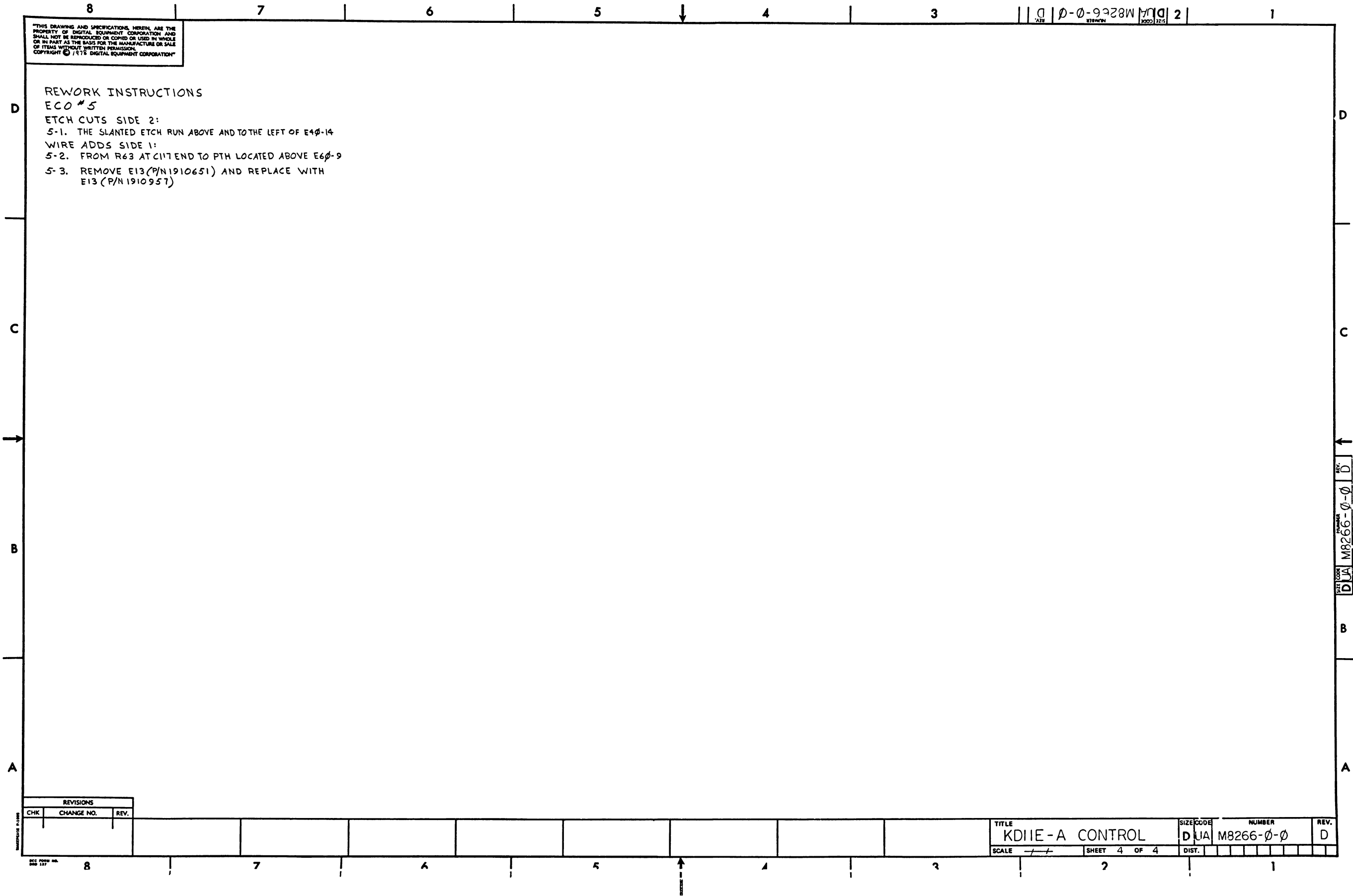
D
C
B
A

1/1 1/2 1/3 1/4 1/5 1/6 1/7 1/8 1/9 1/10 1/11 1/12 1/13 1/14 1/15 1/16 1/17 1/18 1/19 1/20 1/21 1/22 1/23 1/24 1/25 1/26 1/27 1/28 1/29 1/30 1/31 1/32 1/33 1/34 1/35 1/36 1/37 1/38 1/39 1/40 1/41 1/42 1/43 1/44 1/45 1/46 1/47 1/48 1/49 1/50 1/51 1/52 1/53 1/54 1/55 1/56 1/57 1/58 1/59 1/60 1/61 1/62 1/63 1/64 1/65 1/66 1/67 1/68 1/69 1/70 1/71 1/72 1/73 1/74 1/75 1/76 1/77 1/78 1/79 1/80 1/81 1/82 1/83 1/84 1/85 1/86 1/87 1/88 1/89 1/90 1/91 1/92 1/93 1/94 1/95 1/96 1/97 1/98 1/99 1/100

S-1

TITLE		SIZE	CODE	NUMBER		REV
KD11E A CONTROL		D	11A	M8266-000		D
SCALE 2:1		SHEET 3 OF 4		1	ST	

8 7 6 5 4 3 2 1



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REWORK INSTRUCTIONS

ECO #5

ETCH CUTS SIDE 2:

5-1. THE SLANTED ETCH RUN ABOVE AND TO THE LEFT OF E40-14

WIRE ADDS SIDE 1:

5-2. FROM R63 AT C117 END TO PTH LOCATED ABOVE E60-9

5-3. REMOVE E13(P/N1910651) AND REPLACE WITH
E13 (P/N1910957)

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
KDIE-A CONTROL		DUA	M8266-0-0	D
SCALE		SHEET	4 OF 4	DIST.

LINE ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
1	1	D-MD-5012434-0-0	5012434-00	M8266	1
2	2		1000016-00	100.0 MMF 100V 5%200PPM DM15S (10-00	3 C58,C67,C68
3	3		1000024-00	470.0 MMF 100V 5%200PPM DM15S (10-00	6 C56,C57,C65,C66,C71,C116
4	4		1000055-00	2200. MMF 250V 20% Y5S DISC \$	2 C69,C115
5	5		1001476-00	10 MFD 35V10% 150D S.TA (10-00	1 C60
6	6		1001610-01	.01 MFD 100V OR 50V Z5U DISC/800PF MIN	93 C1-C43,C45-C54,C63,C64,
				CONT	C73-C110
7	7		1004812-00	15 MFD 20V 10% 150D S.TA (10-00	1 C59
8	8		1005306-00	6.8MFD 35V 10% 150D S.TA (10-00	6 C72,C111-C114,C61
9	9		1009964-00	.68 MFD 35V 10% 150D S.TA \$	2 C44,C55
10	10		1000021-00	220.0 MMF 100V 5%200PPM DM15S (10-00	3 C62,C70,C117
11	11		1100114-00	D 664 QS\75PCB PIV= 25V SP	4 D1-D4
12	12		1300202-00	47 1/4W 5% CC (13-00	6 R3,R4,R7,R11,R21,R63
13	13		1300250-00	150 1/4W 5% CC (13-00	5 R10,R17,R18,R52,R1
14	14		1300271-00	220 1/4W 5% CC (13-00	1 R62
15	15		1300309-00	390 1/4W 5% CC (13-00	12 R40-R48,R60,R54,R61
16	16		1300316-00	470 1/4W 5% CC (13-00	20 R26-R31,R33-R39,R49-R51,R53,
				CONT	R56,R55,R9
17	17		1300365-00	1 K 1/4W 5% CC (13-00	5 R12,R32,R20,R59,R58
18	18		1300479-00	10 K 1/4W 5% CC (13-00	1 R24
19	19		1302394-00	30 K 1/4W 5% CC (13-00	5 R8,R19,R23,R25,R5
20	20		1311422-00	178 1/4W 1% RN55D-F 100PPM (13-00	5 R13-R16,R22
21	21		1301401-00	750 1/4W 5% CC (13-00	1 R6
22	22		1213506-00	HEADER 24POS RT ANGLE W/3 SIDED HOOD	2 J1,J2
23	23		1905547-00	DEC 7474 FF-D DUAL,EDGE TRIGGER,15MHZ	5 E5,E12,E31,E32,E34
24	24		1905575-00	7400 NAND GATE-QUAD 2IN	5 E3,E15,E18,E28,E86
25	25		1905587-00	DEC 7473 FF-JK DUAL,MASTER SLAVE,10MHZ	2 E24,E45
26	26		1909004-00	DEC 7402 NOR GATE-QUAD 2IN	3 E22,E23,E43
27	27		1909705-00	DEC 8881-INAND GATE-QUAD 2IN,OPN COLL.	2 E8,E77
28	28		1909713-00	DEC 8815 NOR GATE-DUAL 4IN 14	2 E4,E30

REVISION HISTORY			VARIATIONS FOR THIS ASSY.		FIRST USED ON:		DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK	ECO NO	REV								
PG	00005	D	00		MADE BY: R.BARILONE		DATE: 24-MAR-78		TITLE	
									PARTS LIST	
					CHECKED: L.GIAMMARINO		DATE: 24-MAR-78		KD11E-A CONTROL	
					DSN.ENG.: M.SULLIVAN		DATE: 24-MAR-78			
							SIZE	CODE	DOCUMENT NUMBER	REV
					PROD.: B.KING		DATE: 24-MAR-78	K	FL	M8266-0-DBP
					RESP.ENG.: M.SULLAVAN		DATE: 24-MAR-78	ASSY.NO.: D-UA-M8266-0-0		EDIT#
										5

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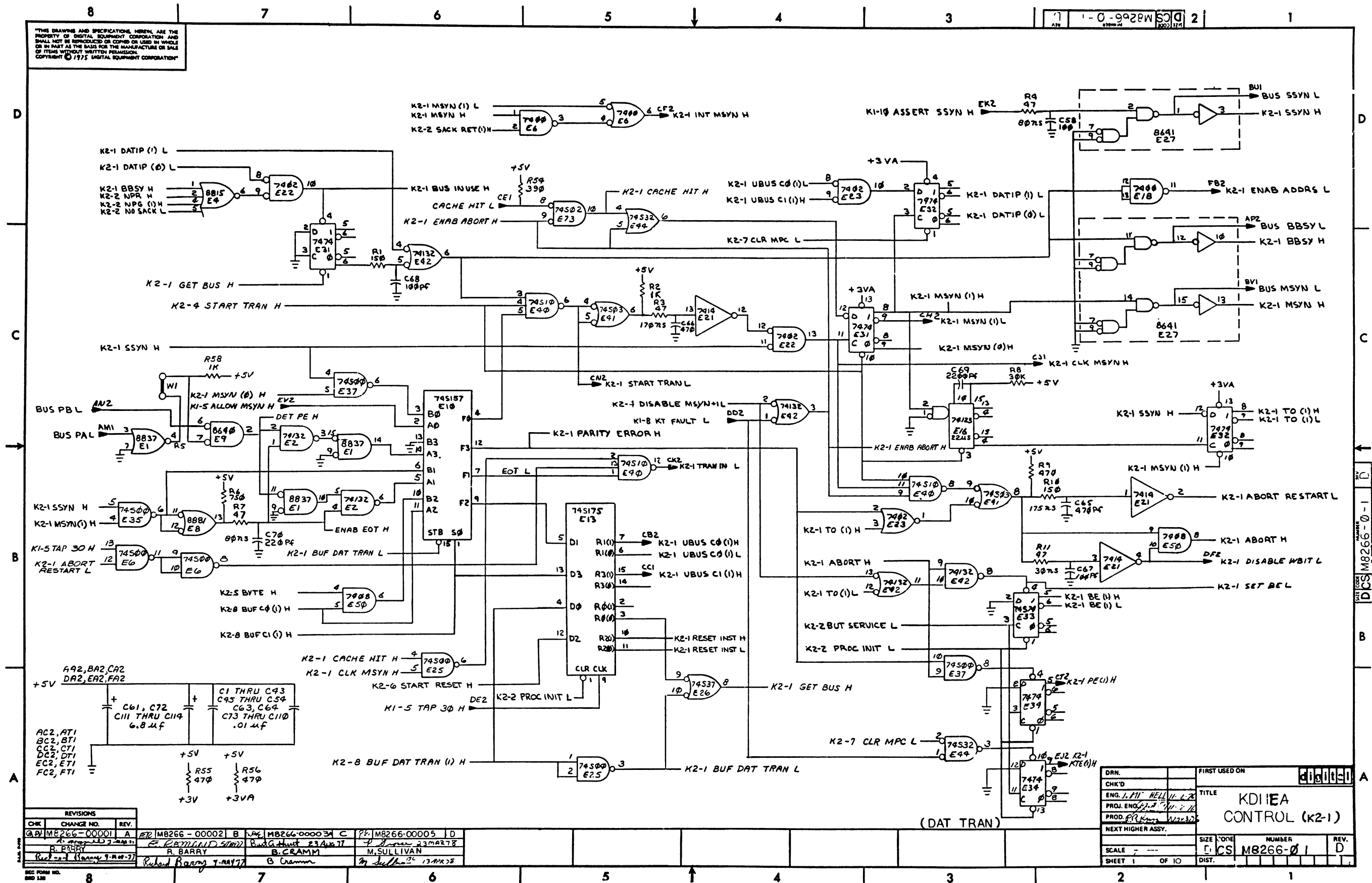
LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
29	29		1910533-00	74S03 NAND GATE-QUAD 2IN,OPN COLLECT	5	E41,E64,E65,E76,E94
30	30		1909930-00	7405 INVERTER GATE-HEX 1IN,OPEN COL	2	E91,E101
31	31		1910018-00	DEC 74193 COUNTER,SYNCHR. UP/DOWN	2	E78,E79
32	32		1911675-00	74S138 DECODER-THREE INPUT	1	E89
33	33		1910091-00	DEC 7437 NAND GATE-QUAD 2IN,BUFFER 14	1	E81
34	34		1910155-00	DEC 7408 AND GATE,POS.QUAD 2IN 14	2	E11,E50
35	35		1910436-00	DEC 74123 ONE SHOT-DUAL,RETRIGGERABLE	3	E16,E7,E14
36	36		1910532-00	74S00 NAND GATE-QUAD 2IN	6	E25,E37,E47,E84,E6,E35
37	37		1910534-00	74S04 INVERTER GATE-HEX 1IN	2	E111,E112
38	38		1910539-00	74S20 NAND GATE-DUAL 4INPUT	2	E57,E58
39	39		1910547-00	74S153 MUX 1 OF 4 (DUAL)	2	E46,E36
40	40		1910548-00	74S157 MUX 1 OF 2 (QUAD)	2	E10,E39
41	41		1910550-00	74S174 FF-D HEX	10	E19,E38,E66,E93,E71,E88,E90,
					CONT	E92,E96,E56
42	42		1910651-00	***** THIS ITEM IS NOT USED *****	0	
43	43		1910878-00	7427 NOR GATE-TRIPLE 3IN	1	E75
44	44		1910957-00	74S175 FF-D QUAD COMMON CLOCK	1	E48,E55,E67,E13
45	45		1911116-00	DEC 8837 RECEIVER,BUS,HEX,UNIBUS	2	E1,E17
46	46		1911324-00	7414 NAND GATE-HEX 1IN SCHMITT TRIG	1	E21
47	47		1911469-00	DEC 8640 RECEIVER,BUS,QUAD,UNIBUS,Q-BU	1	E9
48	48		1911579-00	8641 TRANSCEIVER,BUS,QUAD,UNIBUS	1	E27
49	49		1911637-00	74132 NAND GATE-QUAD 2 IN SCHMITT TR	2	E2,E42
50	50		1912388-00	74S02 NOR GATE-QUAD 2IN,POS	3	E20,E73,E95
51	51		1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	1	E26
52	52		1910544-00	74S74 FF-D DUAL,EDGE TRIGGER	2	E33,E49
53	53		1910536-00	74S10 NAND GATE-TRIPLE 3IN	2	E40,E85
54	54		1913340-00	74S32 OR GATE QUAD 2IN	1	E44
55	55		23106A1-00	A1-07 PROM,	1	E51
56	56		23160A2-00	A2-05 \$	1	E29
57	57		23175A2-00	A2-02,A2-03,A2-04 \$	1	E53
58	58		23162A2-00	A2-05	1	E54
59	59		23174A2-00	A2-02,A2-03,A2-04	1	E59
60	60		23173A2-00	A2-02,A2-03,A2-04	1	E60
61	61		23161A2-00	A2-05	1	E61
62	62		23170A2-00	A2-02,A2-03,A2-04	1	E62
63	63		23176A2-00	A2-02,A2-03,A2-04	1	E63
64	64		23014A9-00	A9-01	1	E68
65	65		23172A2-00	A2-02,A2-03,A2-04	1	E69
66	66		23349A9-00	A9-04	1	E70
67	67		23A22A2-00	A2-02,A2-03	1	E72
68	68		23110A1-00	A1-03,A1-05 PROM,	1	E74
69	69		23163A2-00	A2-05 \$	1	E80
70	70		23108A1-00	A1-07 PROM,	1	E82
71	71		23107A1-00	A1-07 PROM,	1	E83
72	72		23109A1-00	A1-07 PROM,	1	E87
73	73		23022F1-00	F1-01 \$	1	E97
74	74		23023F1-00	F1-01 \$	1	E98
75	75		23021F1-00	F1-01 \$	1	E99

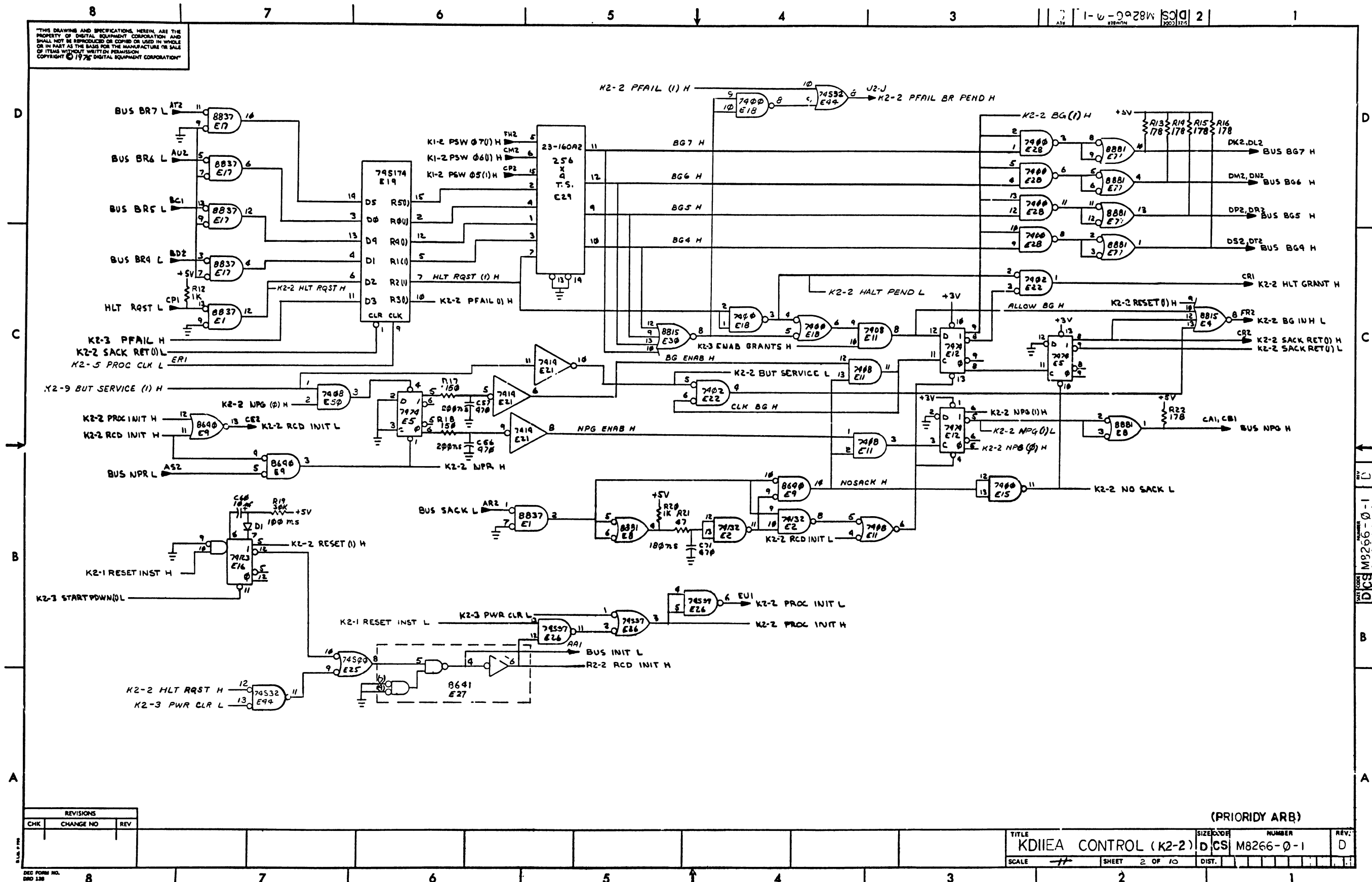
! DIGITAL EQUIPMENT CORPORATION !	! TITLE !	! PARTS LIST !	! SIZE !	! CODE !	! DOCUMENT NUMBER !	! REV !
! MAYNARD, MASSACHUSETTS !	! !	! KD11E-A CONTROL !	! K !	! PL !	! M8266-0-DBP !	! D !

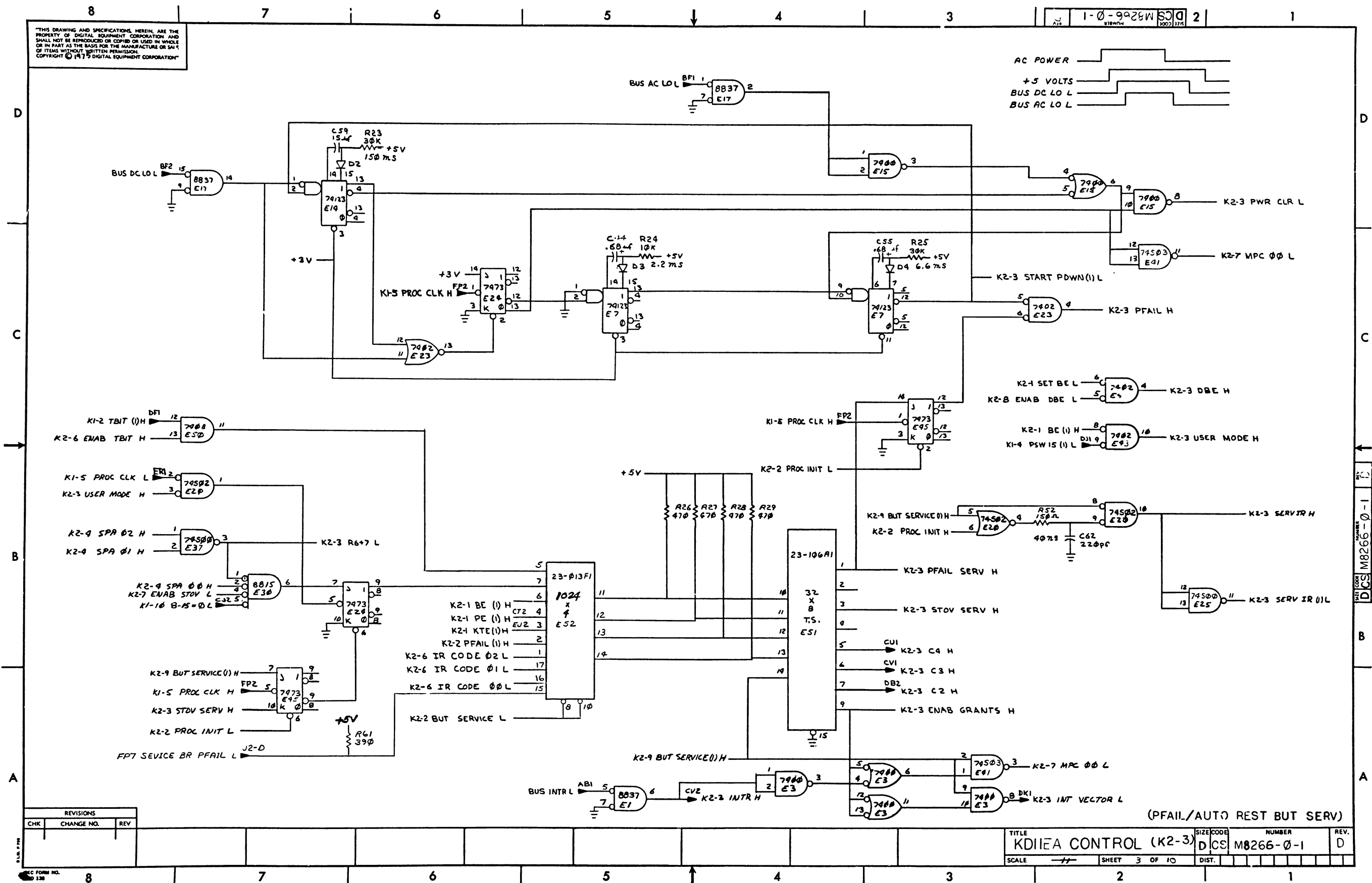
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76	76		23024F1-00	F1-01	\$ 1	E100
77	77		23011F1-00	F1-01	\$ 1	E103
78	78		23025F1-00	F1-01	\$ 1	E104
79	79		23027F1-00	F1-01	\$ 1	E105
80	80		23020F1-00	F1-01	\$ 1	E106
81	81		23019F1-00	F1-01	\$ 1	E107
82	82		23018F1-00	F1-01	\$ 1	E108
83	83		23017F1-00	F1-01	\$ 1	E109
84	84		23016F1-00	F1-01	\$ 1	E110
85	85		23177A1-00	A1-07	FROM, 1	E102
86	86		23013F1-00	F1-01	\$ 1	E52
87	87		9009185-00	JUMPER, WIRE, INSULATED, BLACK BAND	1	W1
88	88		9006732-00	EYELET, ROLLED FLANGE, .121 OD X .219 LG	12	
89	89		7417214-00	MODULE HANDLE REWORK	1	
90	90		1303114-00	1.0 K 1/4W 1% RN55D-F 100PPM	(13-00 1	R2
91	91		9105740-55	WIRE(WRAP)30AWG UL1423	(91-00 A/R	
92	92		9009157-00	ADHESIVE, PERMABOND #101	\$ A/R	

93 NOTE: 1001610-01 MAY BE SUBSTITUED BY 1001610-00.

! DIGITAL EQUIPMENT CORPORATION !	! TITLE	PARTS LIST	! SIZE !	! CODE !	DOCUMENT NUMBER	! REV !
! MAYNARD, MASSACHUSETTS !	! KD11E-A CONTROL		! K !	! FL !	M8266-0-DBP	! D !







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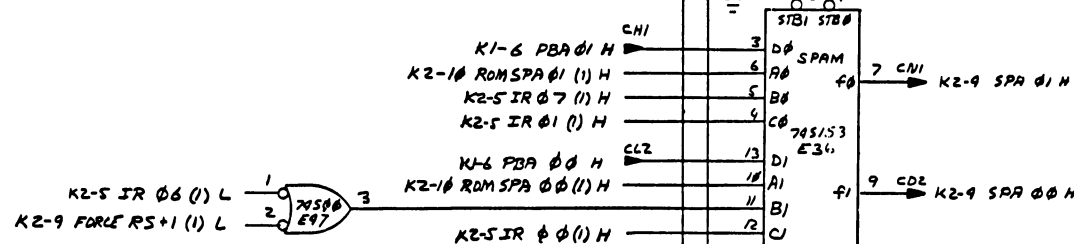
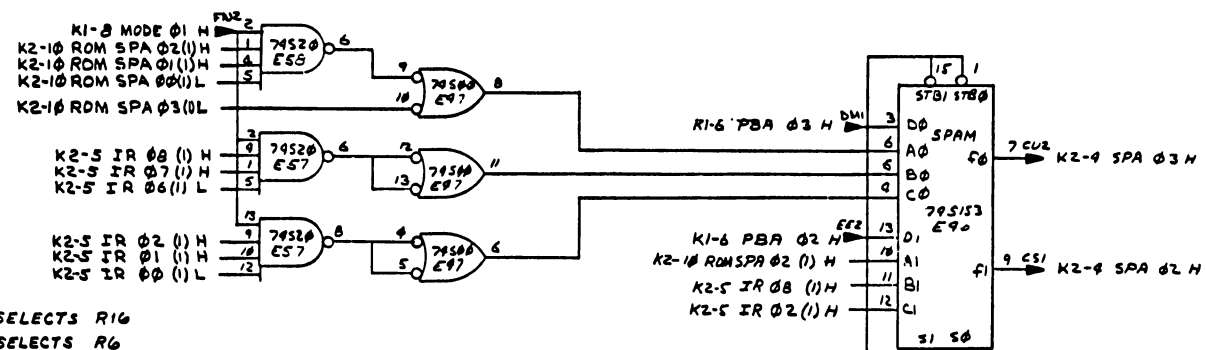
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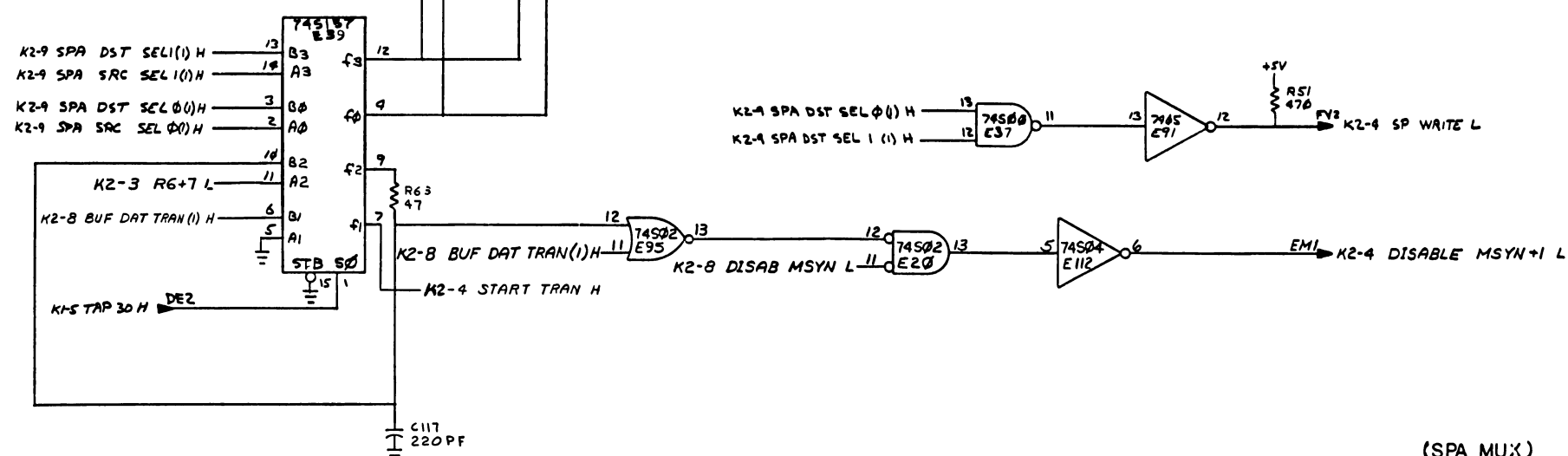
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1-0-9923W
M8266-0-1
D 2

USER MODE SELECTS R16
KERNAL MODE SELECTS R6



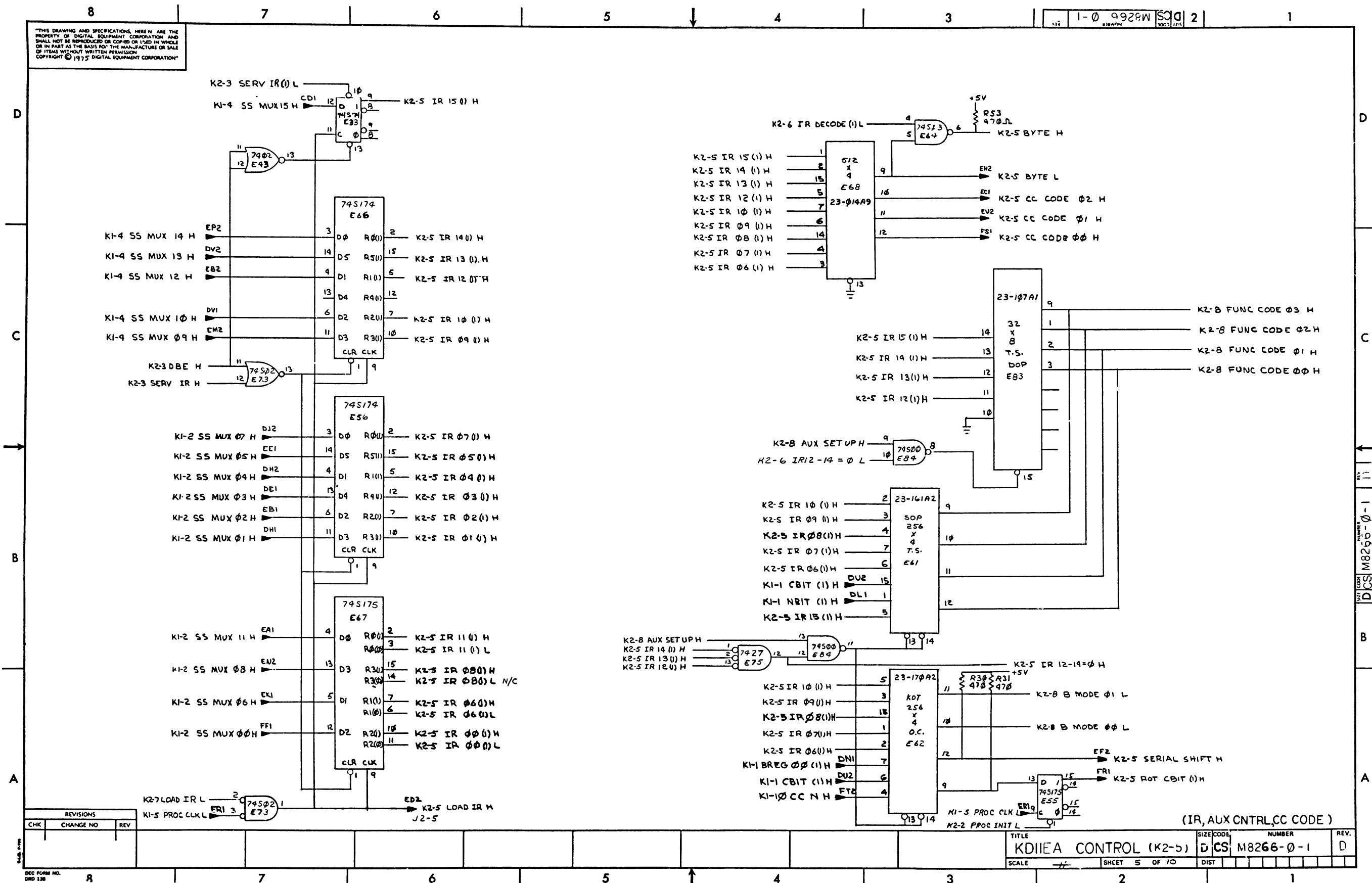
S1	S0	F
L	L	ROM
L	H	AS
H	L	ND
H	H	BA



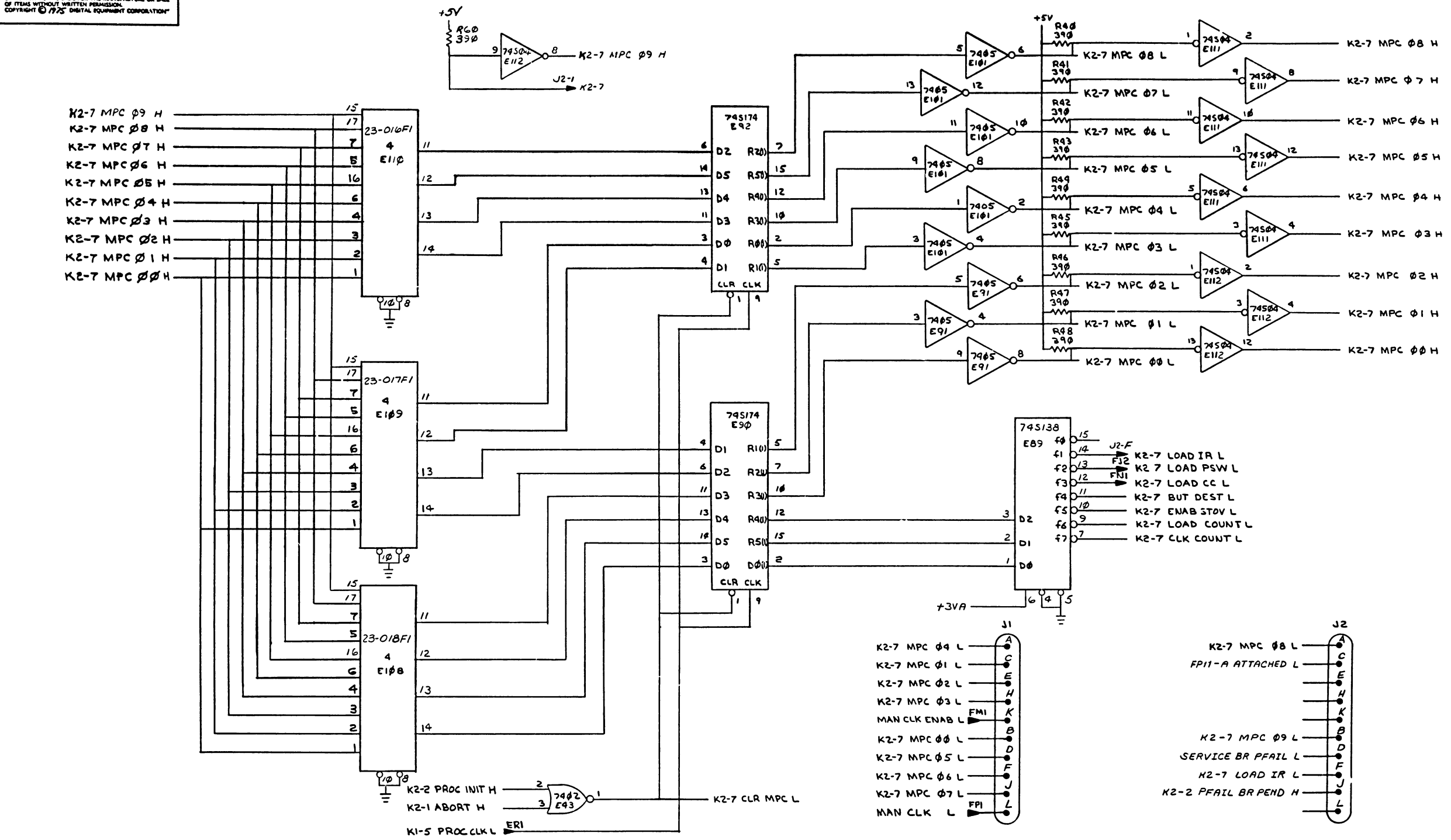
(SPA MUX)

CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
KDIEA CONTROL (K2-4)	D	CS	M8266-0-1	D
SCALE	SHEET	4 OF 10	DIST.	

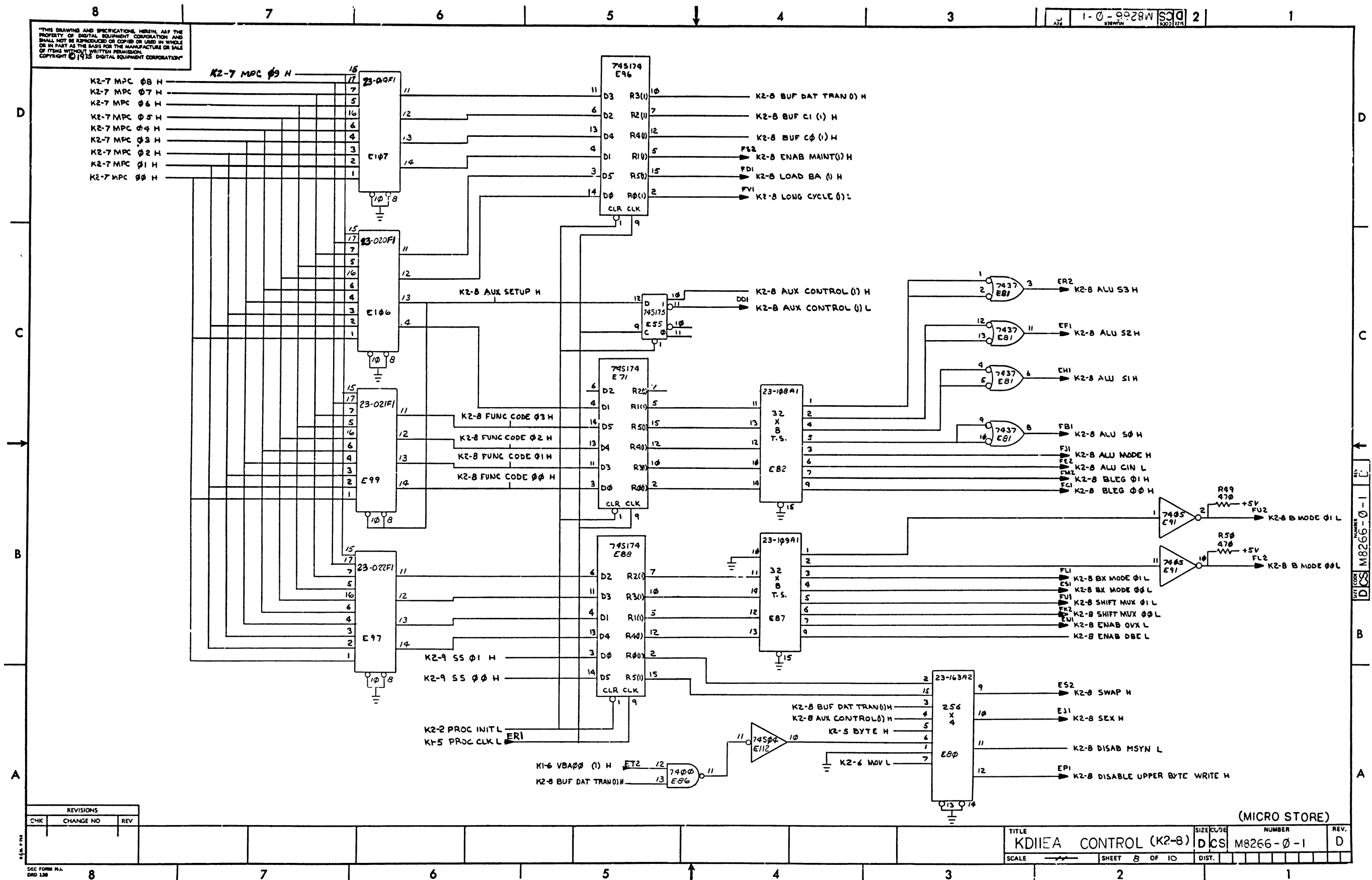


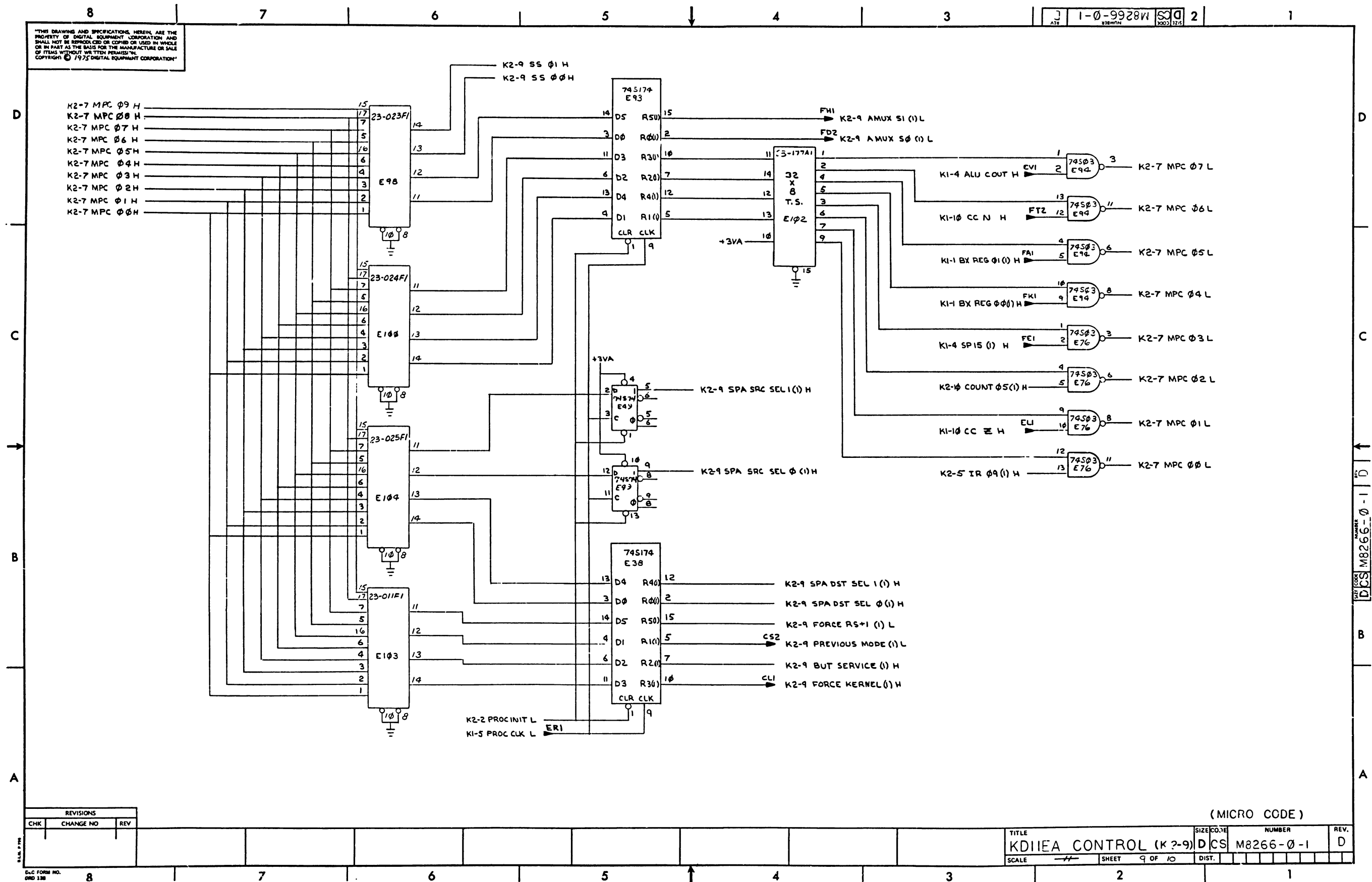
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REVISIONS		
CHK	CHANGE NO	REV

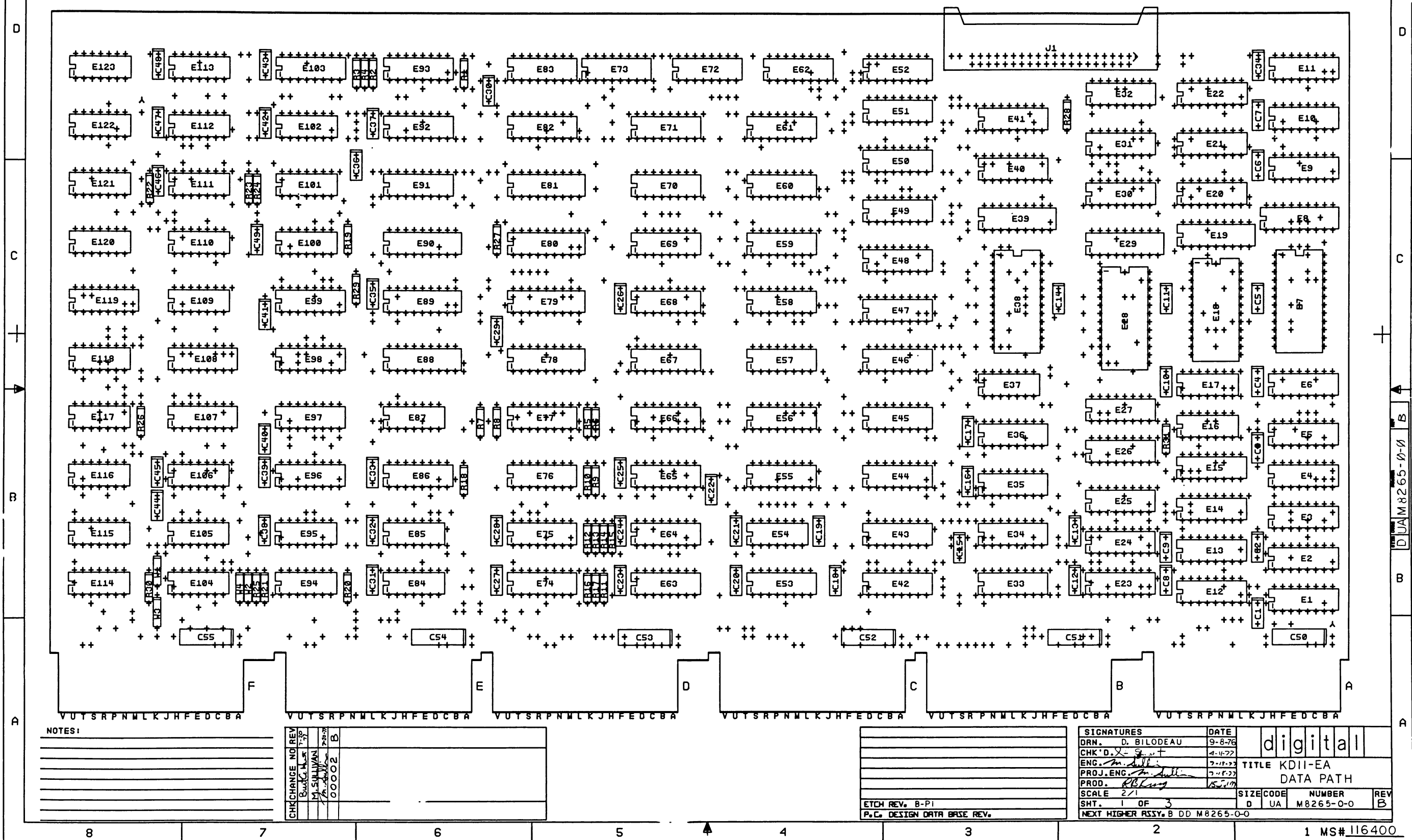
TITLE		SIZE	COL	NUMBER	REV.
KDIII-A CONTROL (K2-7)		D	CS	M8266-0-1	D
SCALE		SHEET 7 OF 10		DIST.	





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COMPONENT SIDE VIEW



NOTES:

CHK	CHANGE	NO	REV
	Buckley	7-37	
	M. SULLIVAN	7-37	
	00002	B	

ETCH REV. B-P1
P.C. DESIGN DATA BASE REV.

SIGNATURES		DATE		digital				
DRN. D. BILODEAU		9-8-76						
CHK'D. <i>X. J. +</i>		4-14-77						
ENG. <i>M. J. +</i>		7-11-77		TITLE KDII-EA DATA PATH				
PROJ. ENG. <i>M. J. +</i>		7-11-77						
PROD. <i>RB King</i>		12-1-77						
SCALE 2/1		SIZE		CODE		NUMBER		REV
SMT. 1 OF 3		D		UA		M8265-0-0		B
NEXT HIGHER ASSY. B DD M8265-0-0								

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TITLE		KD11-EA		SIZE	CODE	NUMBER		REV
DATA PATH				D	UA	M8265-0-0		B
SCALE	2/1	SHEET	OF	DIST				

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Р 834АJ

L4

D

C

B

A

SIDE 2

KD11EA DATA PATH

5012433 B

D1

MB265

B

MB26500

DUA

B

REVISIONS		
CHK	CHANGE NO	REV
1		

TITLE		SIZE CODE	NUMBER	REV
KD11-EA DATA PATH		DUA	M8265-0-0	B
SCALE	2/1	SHEET	3 OF 3	DIST

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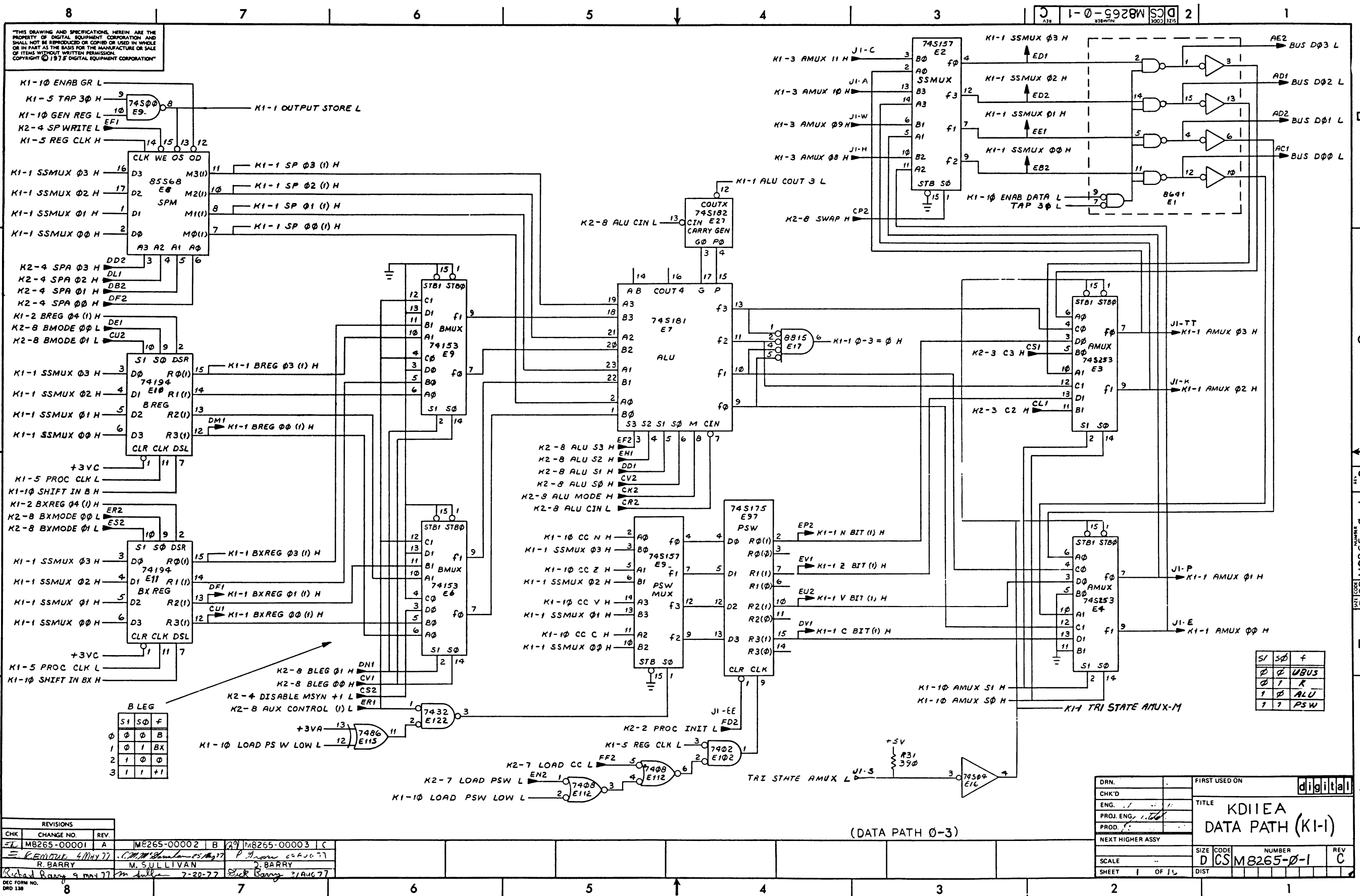
2

1

DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION												NOTES:					
MADE BY F. GAROFALO DATE 7 SEPT 76		CHECKED ROM FONTAINE DATE 7 SEPT 76		SECTION																	
ENG <i>M. Sullivan</i> DATE 7-18-77		PROD R. B. KING DATE 5-5-77		ISSUED SECTION																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION															REF DESIGNATION			
1	D-ND-5012433-0-0	5012433	ETCHED BOARD	1																	
2		1001610-00	CAPACITOR, .01 uf, 50V, 20% CER	48													C1 thru C48				
3		1005306	CAPACITOR, 6.8 uf, 35V, 10%	6													C50 thru C55				
4		1000021	CAPACITOR, 220 pf, 100V, 5%	1													C49				
5		1300316	RESISTOR, 470 OHM, 1/4W, 5% CC	19													R1 thru R19				
6		1300365	RESISTOR, 1K, 1/4W, 5% CC	8													R20 thru R23, R26 thru R29				
7		1300202	RESISTOR, 47 OHM, 1/4W, 5% CC	1													R24				
8		1300271	RESISTOR, 220 OHM, 1/4W, 5% CC	2													R25, R30				
9		1300309	RESISTOR, 390 OHM 1/4W, 5% CC	1													R31				
10		1210711-09	HANDLE, HEX MODULE	1																	
11		1213506-01	RIGHT ANGLE HEADER	1													J1				
12		1612463	DELAY LINE, 150 NS	1													E104				
13		1911521	I.C. DEC 7432	1													E122				
14		1905576	I.C..DEC 7410	1													E123				
15		1909004	I.C. DEC 7402	3													E101, E102, E114				
16		1909686	I.C. DEC 7404	1													E117				
17		1910155	I.C. DEC 7408	1													E112				
18		1905575	I.C. DEC 7400	1													E110				
19		1911637	I.C. DEC 74132	1													E120				
20		1905578	I.C. DEC 7430	2													E54 E87				
21		1910091	I.C. DEC 7437	1													E116				
E.C.O. NO.																					
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								SHEET 1 OF 3				INSERTION PARTS LIST DATA BASE REV									

DIGITAL EQUIPMENT CORPORATION PARTS LIST					QUANTITY / VARIATION												NOTES:										
MADE BY F. GAROFALO DATE 7 SEPT 76		CHECKED RON FONTAINE DATE 7 SEPT 76		SECTION		M8265-Ø-Ø																					
ENG M. Lull DATE 7-18-77		PROD R. B. KING DATE 15 JAN 77		ISSUED SECTION																							
ITEM NO.		DRAWING NO.		PART NO.																				DESCRIPTION		REF DESIGNATION	
22				1910544		I.C. DEC 74S74		2												E100,E109							
23				1910224		I.C. DEC 7485		2												E61,E72							
24				1910011		I.C. DEC 7486		1												E115							
25				1911579		I.C. DEC 8641		9												E1 E12,E23,E42,E43,E53,E63 E64,E33							
26				1909713		I.C. DEC 8815		2												E17,E37							
27				1909937		I.C. DEC 74153		3												E6,E9,E119							
28				1912389		I.C. DEC 74SØ8		1												E106							
29				1910655		I.C. DEC 74157		5												E20,E30,E40,E92 E93							
30				1910652		I.C. DEC 74174		4												E50,E51,E62,E73							
31				1910651		I.C. DEC 74175		3												E82,E99,E103							
32				1910623		I.C. DEC 74194		8												E10,E11,E21,E31,E22,E32,E41,E52							
33				1909932-01		I.C. DEC 7483A		3												E45,E56,E66							
34				1911271		I.C. DEC 74298		3												E44,E55,E65							
35				1909849		I.C. DEC 74HØ1		1												E111							
36				1910532		I.C. DEC 74SØØ		3												E95,E113,E118							
37				1910534		I.C. DEC 74SØ4		2												E105,E16							
38				1910547		I.C. DEC 74S153		4												E13,E14,E34,E35							
39				1910548		I.C. DEC 74S157		7												E2,E24,E71,E91,E96,E98,E108							
40				1910550		I.C. DEC 74S174		3												E47,E48,E49							
41				1910531		I.C. DEC 74S181		4												E7,E18,E28,E38							
42				1912097		I.C. DEC 74S182		1												E27							
E.C.O. NO.																											
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												SHEET 2 OF 3				INSERTION PARTS LIST DATA BASE REV											

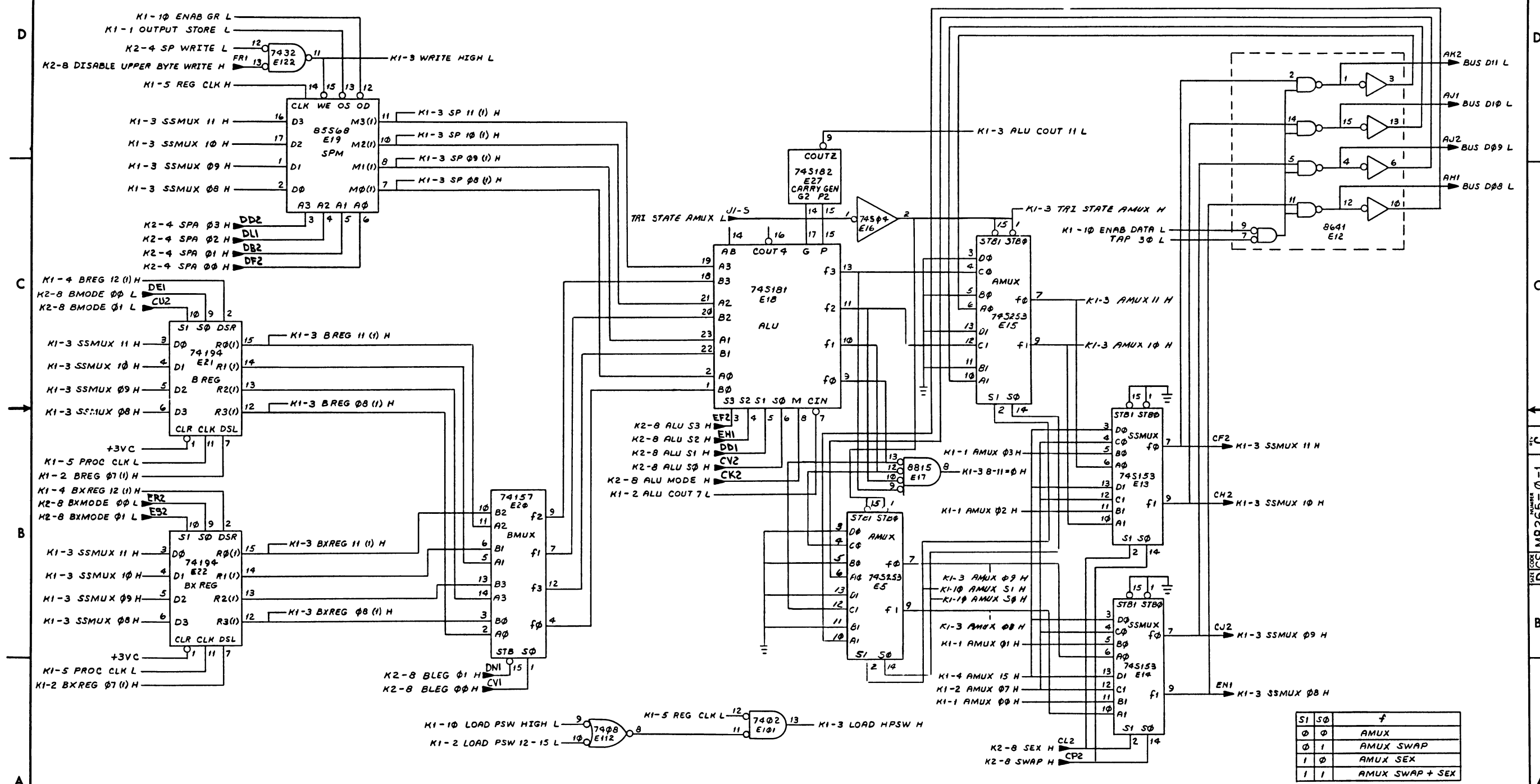
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MADE BY F. GAROFALO DATE 7 SEPT 76		CHECKED RON FONTAINE DATE 7 SEPT 76		SECTION		M8265-Ø-Ø															
ENG m. Sullivan DATE 7-18-77		PROD R. B. KING DATE 15 JUL 77		ISSUED SECTION																	
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION																	REF DESIGNATION	
43		1912646	I.C. DEC 74LS253		8															E57 thru E60,E67 thru E70	
44		1912586	I.C. DEC 85S68		11															E8,E19,E29,E39,E78 thru E81,E88,E89,E90	
45		1910536	I.C. DEC 74S1Ø		1															E94	
46		1910957	I.C. DEC 74S175		1															E97	
47		1910537	I.C. DEC 74S11		1															E121	
48		23169A2	I.C. DEC 256 x 4 BIT ROM OC		2															E74,E75	
49		23168A2	I.C. DEC 256 x 4 BIT ROM OC		1															E76	
50		23167A2	I.C. DEC 256 x 4 BIT ROM OC		1															E77	
51		23165A2	I.C. DEC 256 x 4 BIT ROM OC		1															E83	
52		23166A2	I.C. DEC 256 x 4 BIT ROM OC		1														E86		
53		23164A2	I.C. DEC 256 x 4 ROM TS		1														E107		
54		1912746	I.C. DEC 74S37		2														E84,E85		
55		1912660	I.C. DEC 74S253		8														E3,E4 E5 E15,E25,E26,E36.E46		
56		900ØØ24-Ø1	EYELET (HANDLE)		11																
57		9009185	WIRE, JUMPER (INSULATED)		2														W1,W2		
E.C.O. NO.																					
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								SHEET 3 OF 3				INSERTION PARTS LIST DATA BASE REV									



REVISIONS			
CHK	CHANGE NO.	REV	
1	M8265-00001	A	M8265-00002
2	M8265-00002	B	M8265-00003
3	M8265-00003	C	
Richard Barry 9 May 77			
M. Sullivan 7-20-77			
Dick Barry 31 Aug 77			

DRN.		FIRST USED ON	digital
CHK'D		TITLE	KD11EA
ENG.			DATA PATH (KI-1)
PROJ. ENG.			
PROD.			
NEXT HIGHER ASSY			
SCALE		SIZE CODE	D CS M8265-0-1
SHEET	1	OF 1	

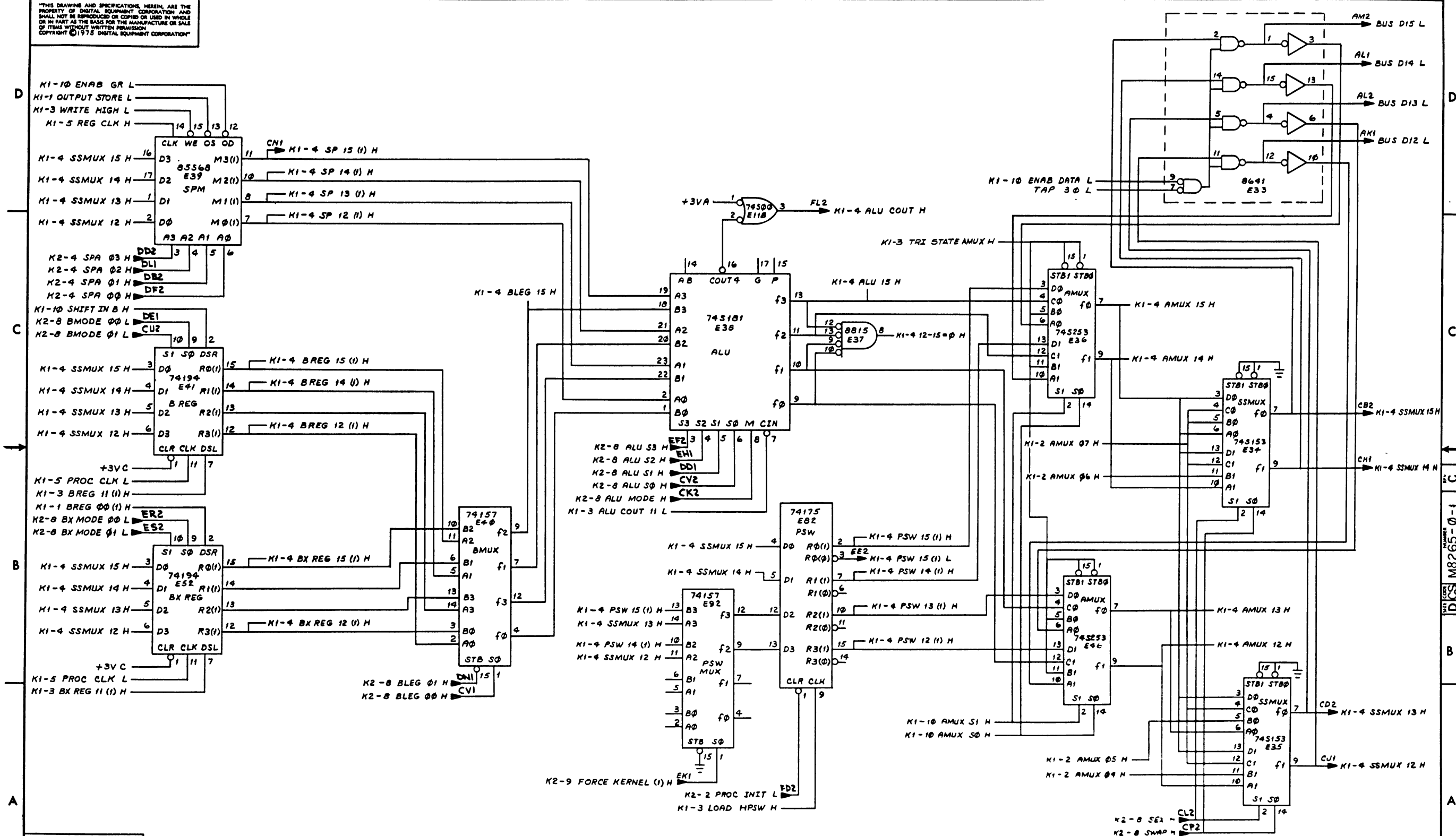
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(DATA PATH 8-11)

REVISIONS		
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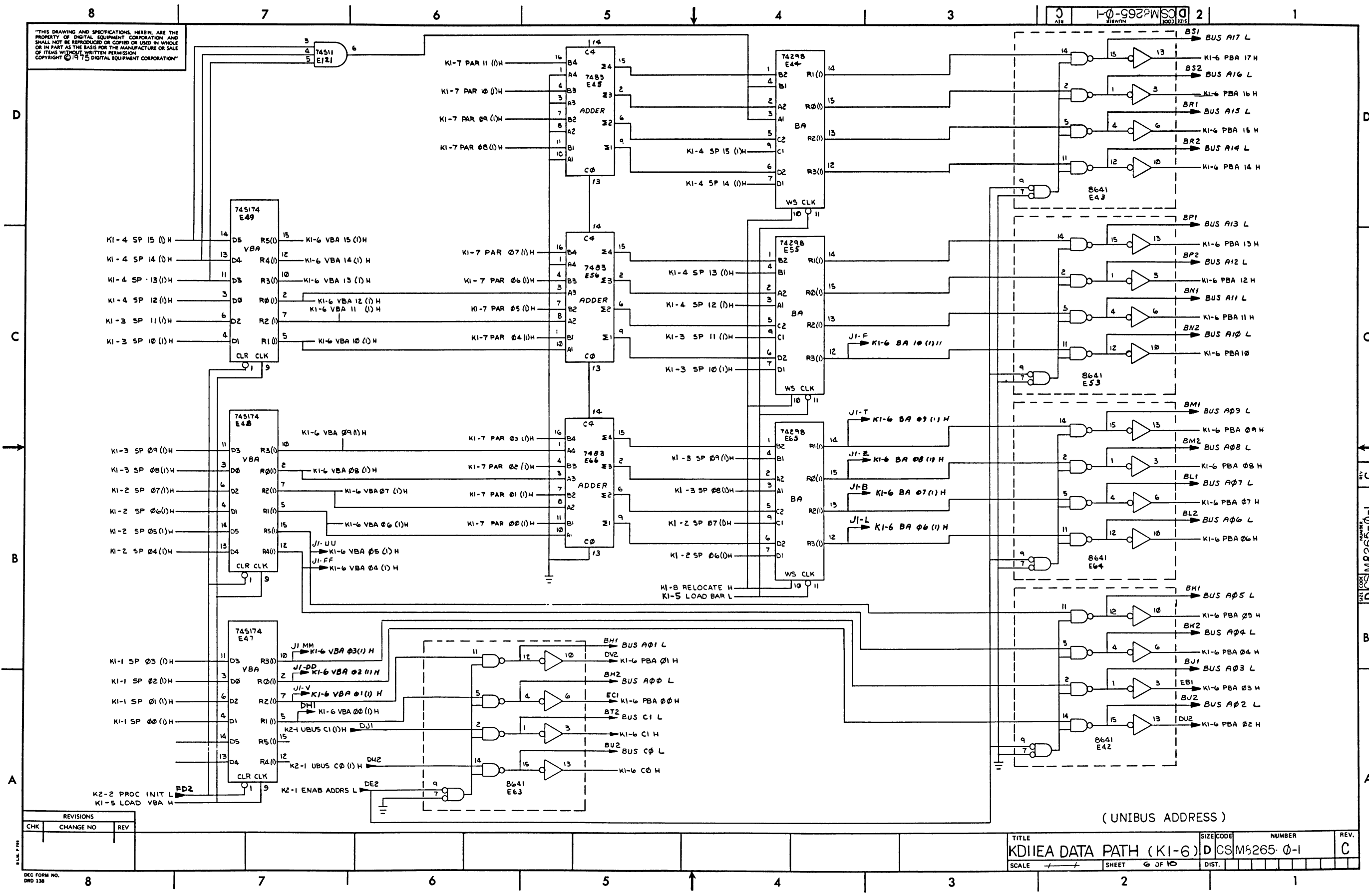
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(DATA PATH 12-15)

REVISIONS		
CHK	CHANGE NO	REV

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KDIIEA DATA PATH (K1-4)				DCS M8265-0-1	C
SCALE		SHEET	4 OF 5	DIST	

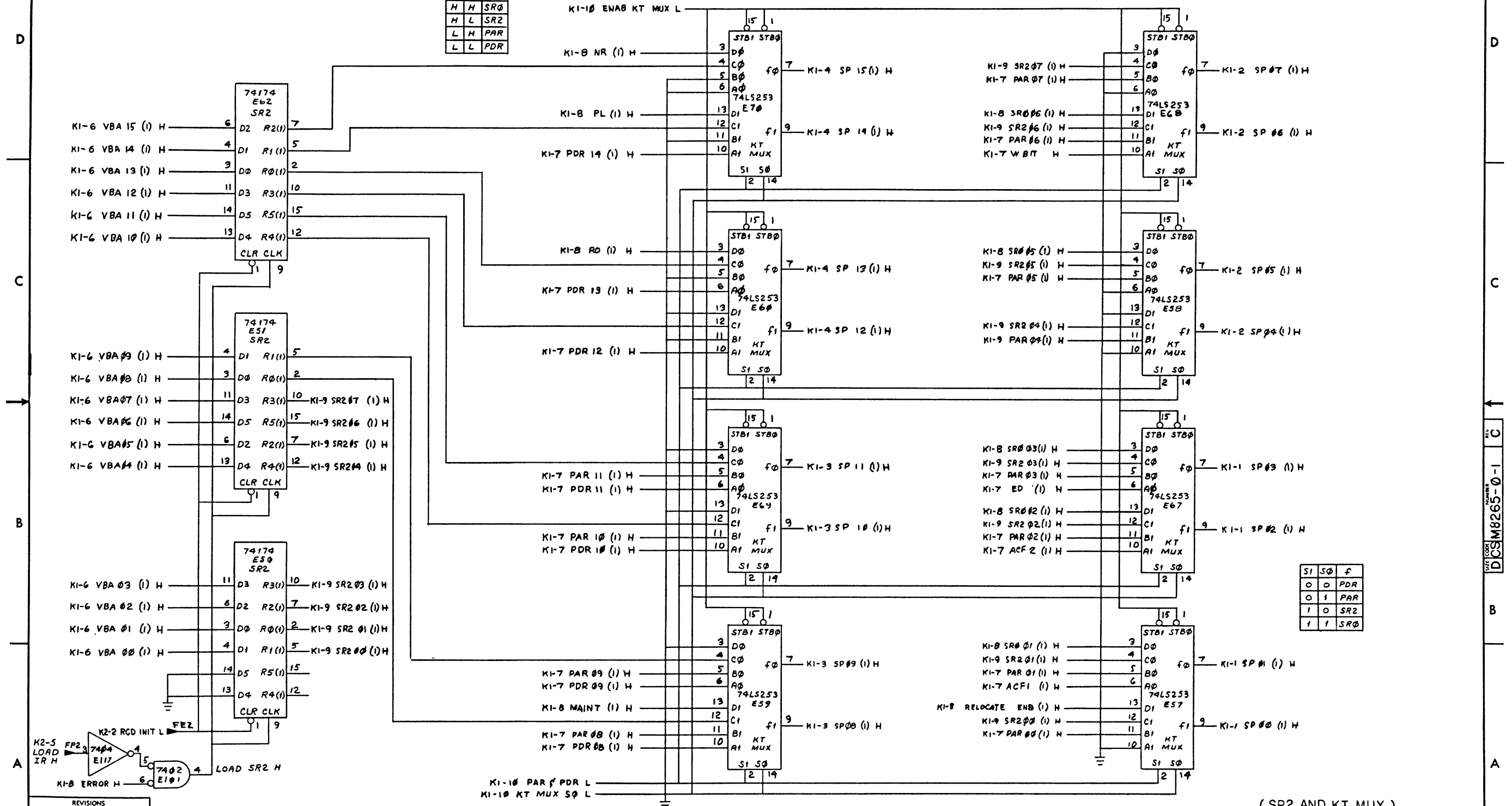


REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
KDIIEA DATA PATH (KI-6)		D	CS M5265-0-1	C
SCALE	SHEET	DIST.		
+	6 OF 10			

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SI	S0	F
H	H	SR0
H	L	SR2
L	H	PAR
L	L	PDR



SI	S0	F
0	0	PDR
0	1	PAR
1	0	SR2
1	1	SR0

(SR2 AND KT MUX)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	KDII EA DATA PATH(KI-9)	SIZE CODE	NUMBER	REV.
SCALE	1:1	SHEET	9 OF 10	C

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<div>TABLE OF CONTENTS</div> <table><tr><td>B-TC-FP11-A-4</td><td>FLOATING POINT OPTION (TC)</td><td rowspan="20"><div>UNIT VARIATIONS COVERED BY THIS PRINT SET</div><div>FP11-A</div></td></tr><tr><td>B-DD-FP11-A</td><td>FLOATING POINT OPTION</td></tr><tr><td>D-UA-FP11-A-Ø</td><td>FLOATING POINT OPTION</td></tr><tr><td>A-PL-FP11-A-Ø</td><td>FLOATING POINT OPTION (PL)</td></tr><tr><td>D-BD-FP11-A-1</td><td>BLOCK DIAGRAM</td></tr><tr><td>D-UA-M8267-Ø-Ø</td><td>FLOATING POINT OPTION</td></tr><tr><td>B-PL-M8267-Ø-Ø</td><td>FLOATING POINT OPTION (PL)</td></tr><tr><td>D-CS-M8267-Ø-1</td><td>FLOATING POINT OPTION (CS)</td></tr><tr><td colspan="2"> </td></tr><tr><td>D-UA-H8821-Ø-Ø</td><td>BOARD INTERCONNECT 4Ø Pin</td></tr><tr><td>B-PL-H8821-Ø-Ø</td><td>BCARD INTERCONNECT 4Ø Pin (PL)</td></tr><tr><td>D-CS-H8821-Ø-1</td><td>BOARD INTERCONNECT 4Ø Pin (CS)</td></tr><tr><td>D-UA-5412416-Ø-Ø</td><td>BOARD INTERCONNECT 2Ø Pin</td></tr><tr><td>B-PL-5412416-Ø-Ø</td><td>BOARD INTERCONNECT 2Ø Pin (PL)</td></tr><tr><td>D-CS-5412416-Ø-1</td><td>BOARD INTERCONNECT 2Ø Pin (CS)</td></tr><tr><td>D-UA-W9Ø42-Ø-Ø</td><td>EXTENDER BOARD ASSY.</td></tr><tr><td>B-PL-W9Ø42-Ø-Ø</td><td>EXTENDER BOARD ASSY. (PL)</td></tr><tr><td>D-CS-W9Ø42-Ø-1</td><td>EXTENDER BOARD ASSY. (CS)</td></tr><tr><td>A-PL-FP11-A-3</td><td>SHIPPING LIST</td></tr><tr><td>D-FD-FP11-A-2</td><td>FLOW DIAGRAM</td></tr><tr><td>D-FD-FP11-A-5</td><td>FLOW DIAGRAM</td></tr></table>																		B-TC-FP11-A-4	FLOATING POINT OPTION (TC)	<div>UNIT VARIATIONS COVERED BY THIS PRINT SET</div> <div>FP11-A</div>	B-DD-FP11-A	FLOATING POINT OPTION	D-UA-FP11-A-Ø	FLOATING POINT OPTION	A-PL-FP11-A-Ø	FLOATING POINT OPTION (PL)	D-BD-FP11-A-1	BLOCK DIAGRAM	D-UA-M8267-Ø-Ø	FLOATING POINT OPTION	B-PL-M8267-Ø-Ø	FLOATING POINT OPTION (PL)	D-CS-M8267-Ø-1	FLOATING POINT OPTION (CS)			D-UA-H8821-Ø-Ø	BOARD INTERCONNECT 4Ø Pin	B-PL-H8821-Ø-Ø	BCARD INTERCONNECT 4Ø Pin (PL)	D-CS-H8821-Ø-1	BOARD INTERCONNECT 4Ø Pin (CS)	D-UA-5412416-Ø-Ø	BOARD INTERCONNECT 2Ø Pin	B-PL-5412416-Ø-Ø	BOARD INTERCONNECT 2Ø Pin (PL)	D-CS-5412416-Ø-1	BOARD INTERCONNECT 2Ø Pin (CS)	D-UA-W9Ø42-Ø-Ø	EXTENDER BOARD ASSY.	B-PL-W9Ø42-Ø-Ø	EXTENDER BOARD ASSY. (PL)	D-CS-W9Ø42-Ø-1	EXTENDER BOARD ASSY. (CS)	A-PL-FP11-A-3	SHIPPING LIST	D-FD-FP11-A-2	FLOW DIAGRAM	D-FD-FP11-A-5	FLOW DIAGRAM
B-TC-FP11-A-4	FLOATING POINT OPTION (TC)	<div>UNIT VARIATIONS COVERED BY THIS PRINT SET</div> <div>FP11-A</div>																																																										
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D-CS-5412416-Ø-1	BOARD INTERCONNECT 2Ø Pin (CS)																																																											
D-UA-W9Ø42-Ø-Ø	EXTENDER BOARD ASSY.																																																											
B-PL-W9Ø42-Ø-Ø	EXTENDER BOARD ASSY. (PL)																																																											
D-CS-W9Ø42-Ø-1	EXTENDER BOARD ASSY. (CS)																																																											
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D-FD-FP11-A-2	FLOW DIAGRAM																																																											
D-FD-FP11-A-5	FLOW DIAGRAM																																																											
<div>REVISIONS</div>	REV.	A	B	<div>USED ON OPTION/MODEL</div> <div>1134A</div>				DRN.	DATE	<div>TITLE:</div> <div>FLOATING POINT OPTION</div> <div>digital</div>																																																		
	CHG. NO.	FP11-A-1	FP11-A-3					CHK'D	DATE																																																			
		7-77	5-78					D. HEALY	OCT 76																																																			
		7-77	5-78					PROJ. ENG.	DATE																																																			
	DATE	7-77	5-78					FIELD SERV.	DATE	SIZE	CODE	NUMBER				REV.																																												
	SHEET I OF 1							DIST.				B																																																

| DRB 124 | | | | | | | | | | | | | | | | | |

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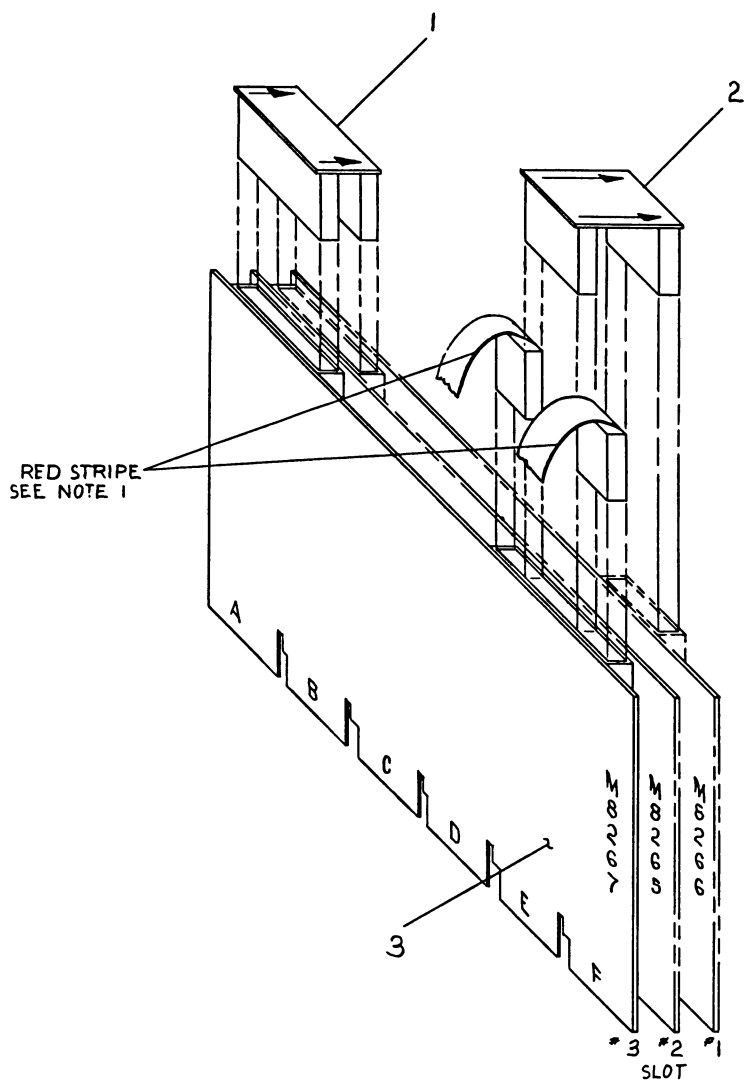
SEQUENCE

REVISIONS				
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9-77	FP11-A-2	B		
5-78	FP11-A-3	C		

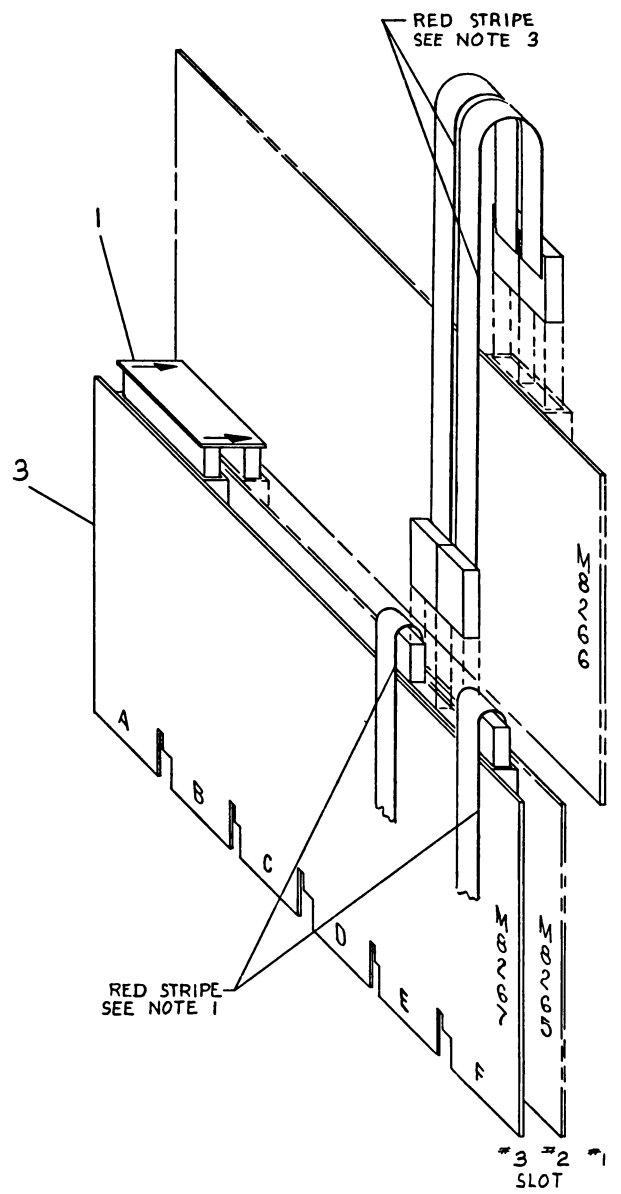
USED ON OPTION/MODEL		DRN. D. HEALY	DATE OCT 76	TITLE FLOATING POINT OPTION									
1134A		CHK'D. D. HEALY	DATE OCT 76										
		PROJ ENG. JW Mitchell	DATE 12-20-76										
		PROD. 28th L	DATE 12-21-76	SIZE B		CODE DD	NUMBER FP11-A				REV C		
		FIELD COR.	DATE	DIST									
SHEET 1 OF 2													

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- NOTES:
1. THESE CABLES #7011411-ID ARE PART OF KY11-LB OPTION AND MAY NOT BE PRESENT IN SOME CONFIGURATIONS.
 2. THE W9042 EXTENDER BD. ASSY. IS STORED IN THE BACKPLANE AND IS USED FOR SOME MAINTENANCE OPERATIONS.
 3. THESE CABLES ARE INSTALLED DURING MAINTENANCE ONLY, AND ARE CLIPPED TO THE W9042 FOR STORAGE. THESE CABLES #7011411-ID ARE PART OF W9042.
 4. MODULES M8265 & M8266 ARE PART OF KD11-EA & SHOWN FOR REF ONLY.



CONFIGURATION "A"



CONFIGURATION "B"

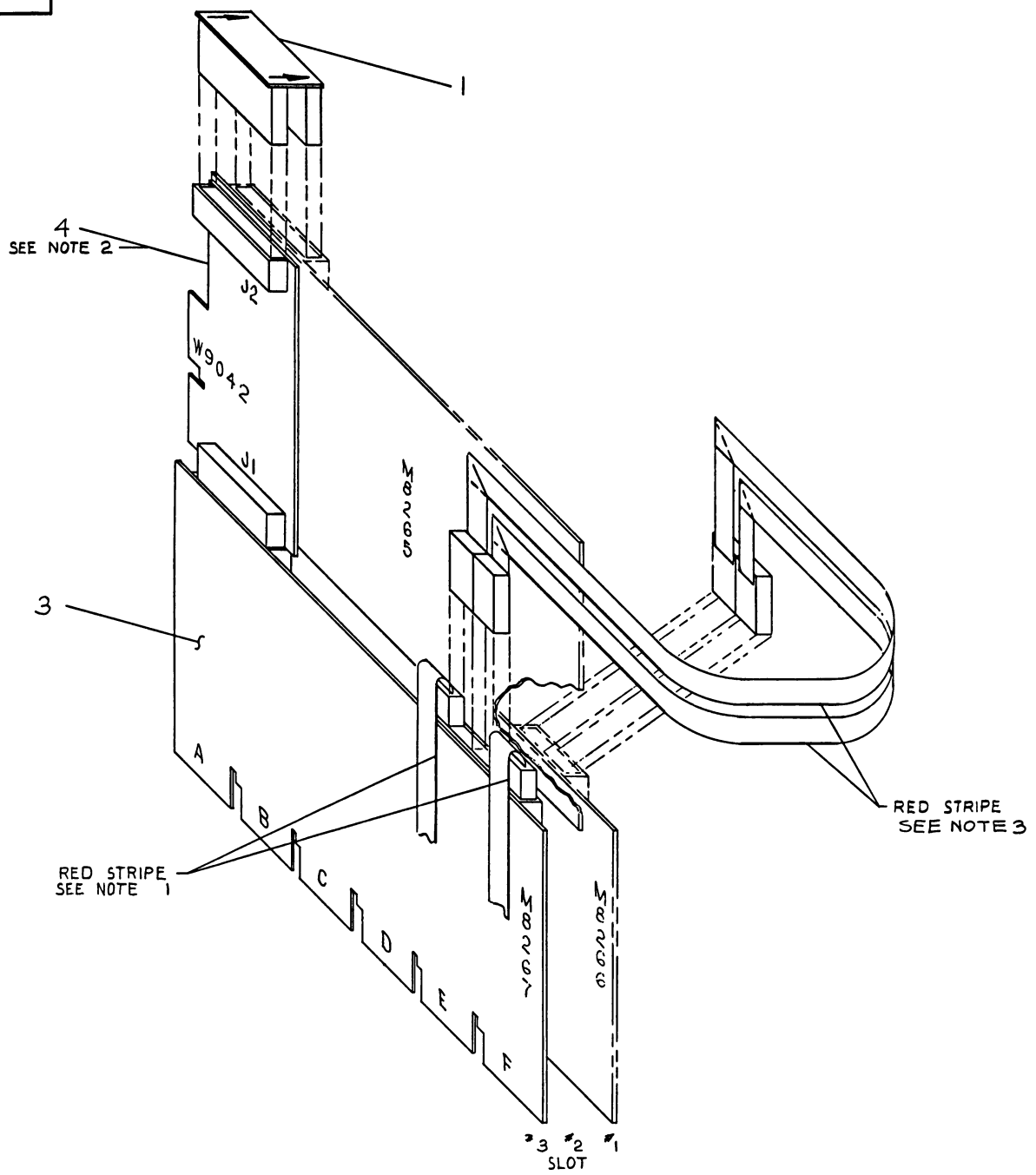
1	EXTENDER BD. ASSY.	D-UA-W9042-0-0	4
1	FLOATING POINT (FPII-A)	D-UA-M8267-0-0	3
1	BOARD, INTERCONN 20 PIN	D-UA-5412416-0-0	2
1	BOARD, INTERCONN 40 PIN	D-UA-H8821-0-0	1

DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 10° 30°	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN	(CHECK ONE)	OVER TO	OVER TO
MEDIUM	<input checked="" type="checkbox"/> MEDIUM	0.004	0.008
MICROINCHES	PREFERRED	± 0.012	± 0.018

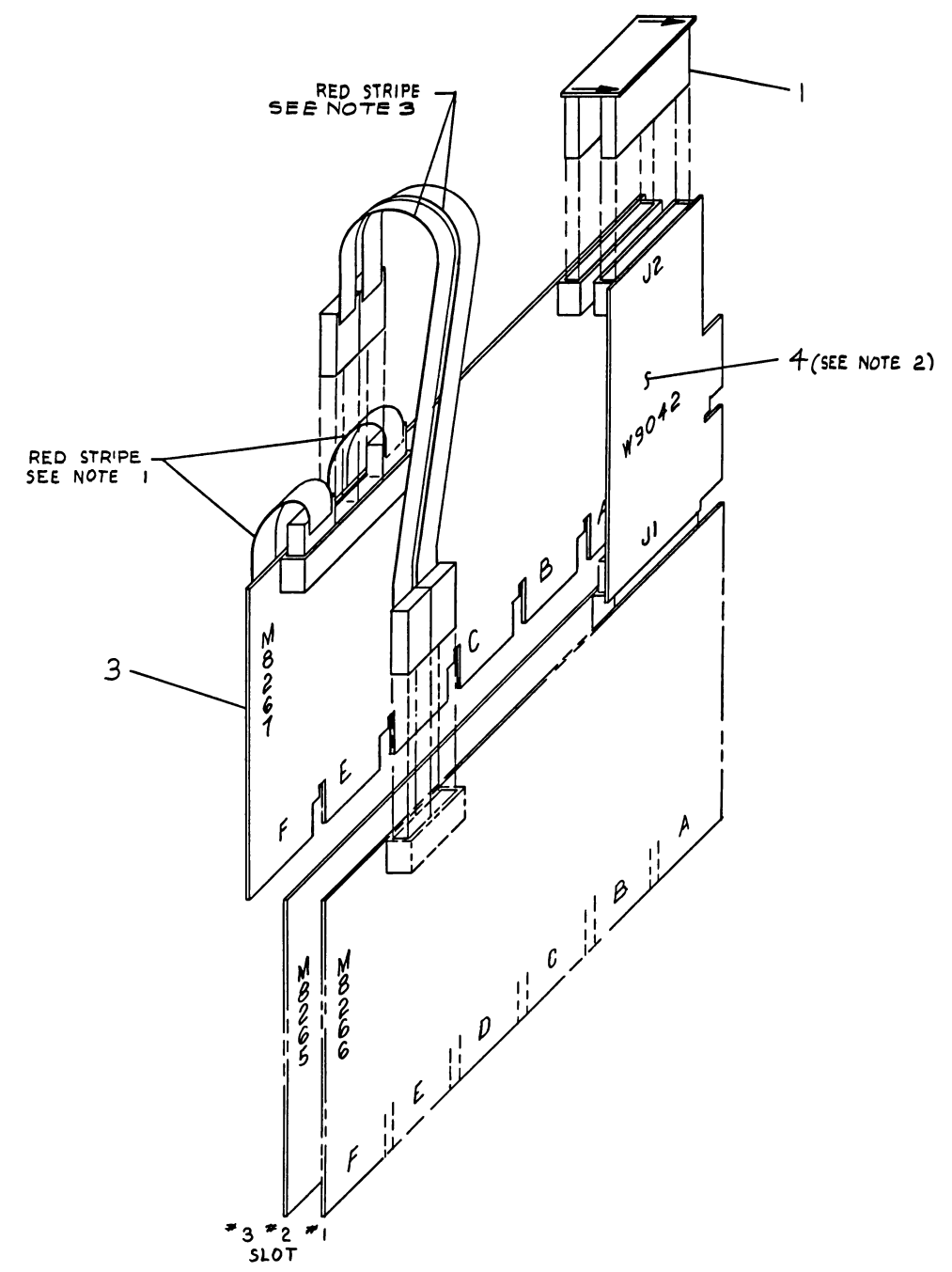
THIRD ANGLE PROJECTION	DRN. B.O. [Signature] 11 OCT 76	FIRST USED ON 1134	digital
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D D. [Signature] 29 OCT 76	TITLE FLOATING POINT OPTION	
DO NOT SCALE DWG	ENG. [Signature] 16 OCT 76	SIZE CODE NUMBER	
MATERIAL SEE PARTS LIST	PROJ. ENG. [Signature] 20 OCT 76	D UA FPII-A-0	
FINISH	PROD. [Signature] 21 OCT 76	SHEET 1 OF 2	REV.

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REV. 1
D 2
FPII-A-0
3388701N
2000 1215



CONFIGURATION "C"

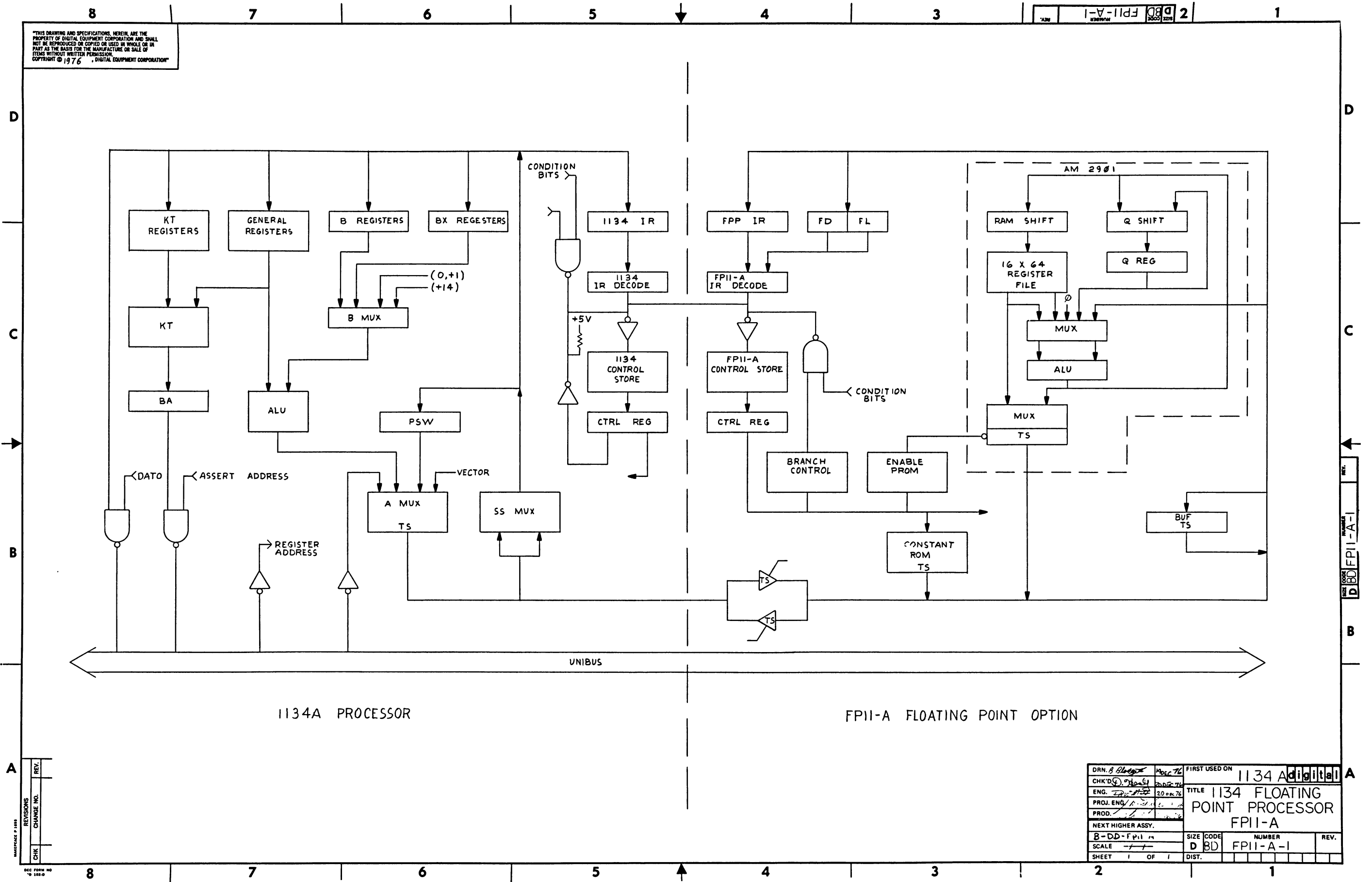


CONFIGURATION "D"

REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE CODE	NUMBER	REV.
FLOATING POINT OPTION		D UA	FPII-A-0	
SCALE	NONE	SHEET	2 OF 2	DIST.

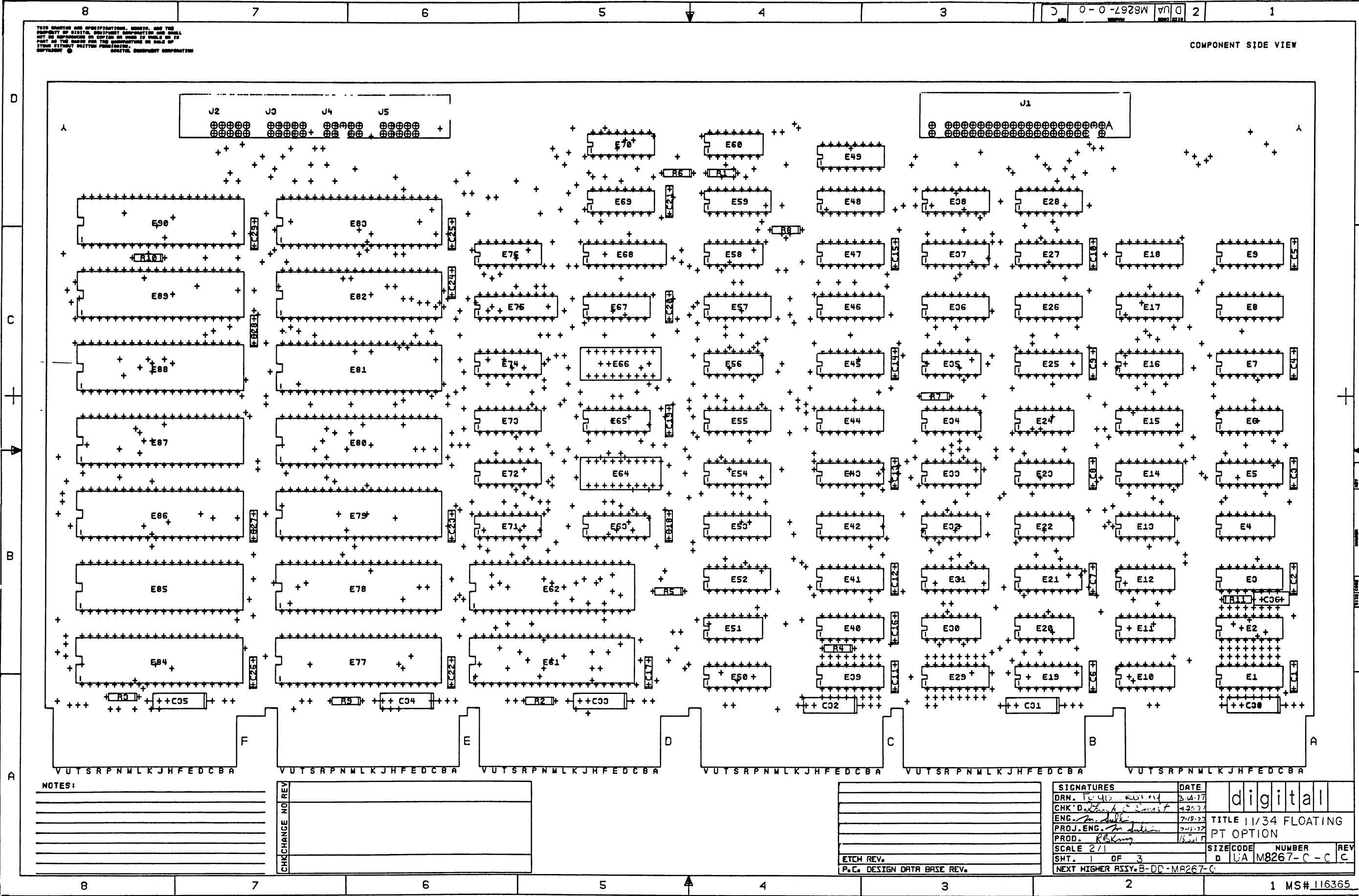
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1134A PROCESSOR

FPII-A FLOATING POINT OPTION

DRN. <i>A. Blodgett</i>	DATE <i>7/6</i>	FIRST USED ON	1134A digital
CHK'D. <i>[Signature]</i>	DATE <i>20 DEC 76</i>	TITLE	1134 FLOATING POINT PROCESSOR FPII-A
ENG. <i>[Signature]</i>	DATE <i>20 DEC 76</i>	SIZE	D
PROJ. ENG. <i>[Signature]</i>	DATE <i>20 DEC 76</i>	CODE	BD
PROD. <i>[Signature]</i>	DATE <i>20 DEC 76</i>	NUMBER	FPII-A-1
NEXT HIGHER ASSY.		SCALE	
B-DD-FPII-A		DIST.	
SHEET 1 OF 1		REV.	



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834AJ

L4

M8267
6012435 BP1
11/34 FLOATING POINT OPTION
SIDE 2

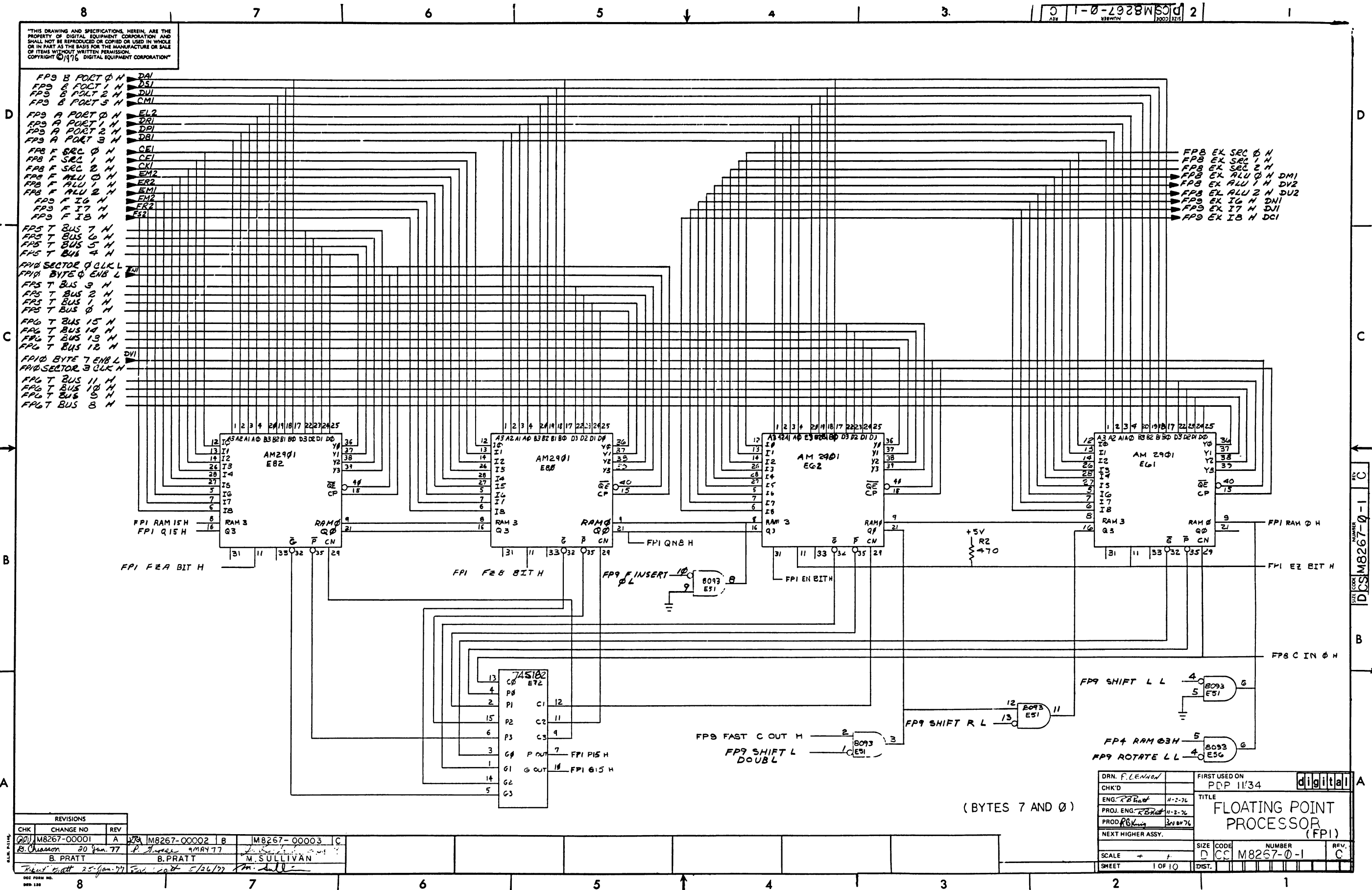
SIZE CODE D U A
NUMBER M8267-0-0
REV C

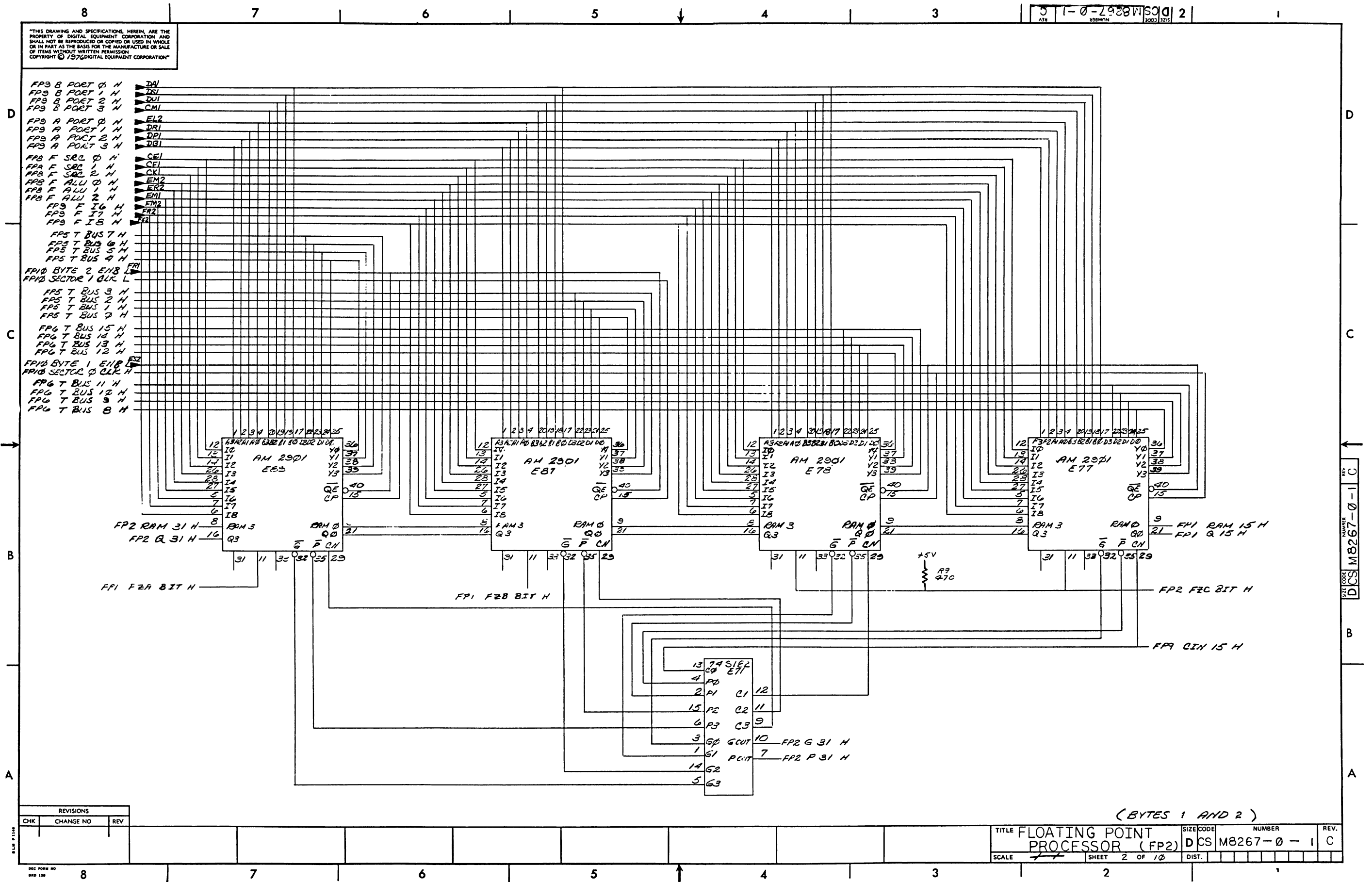
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CHK	CHANGE NO	REV

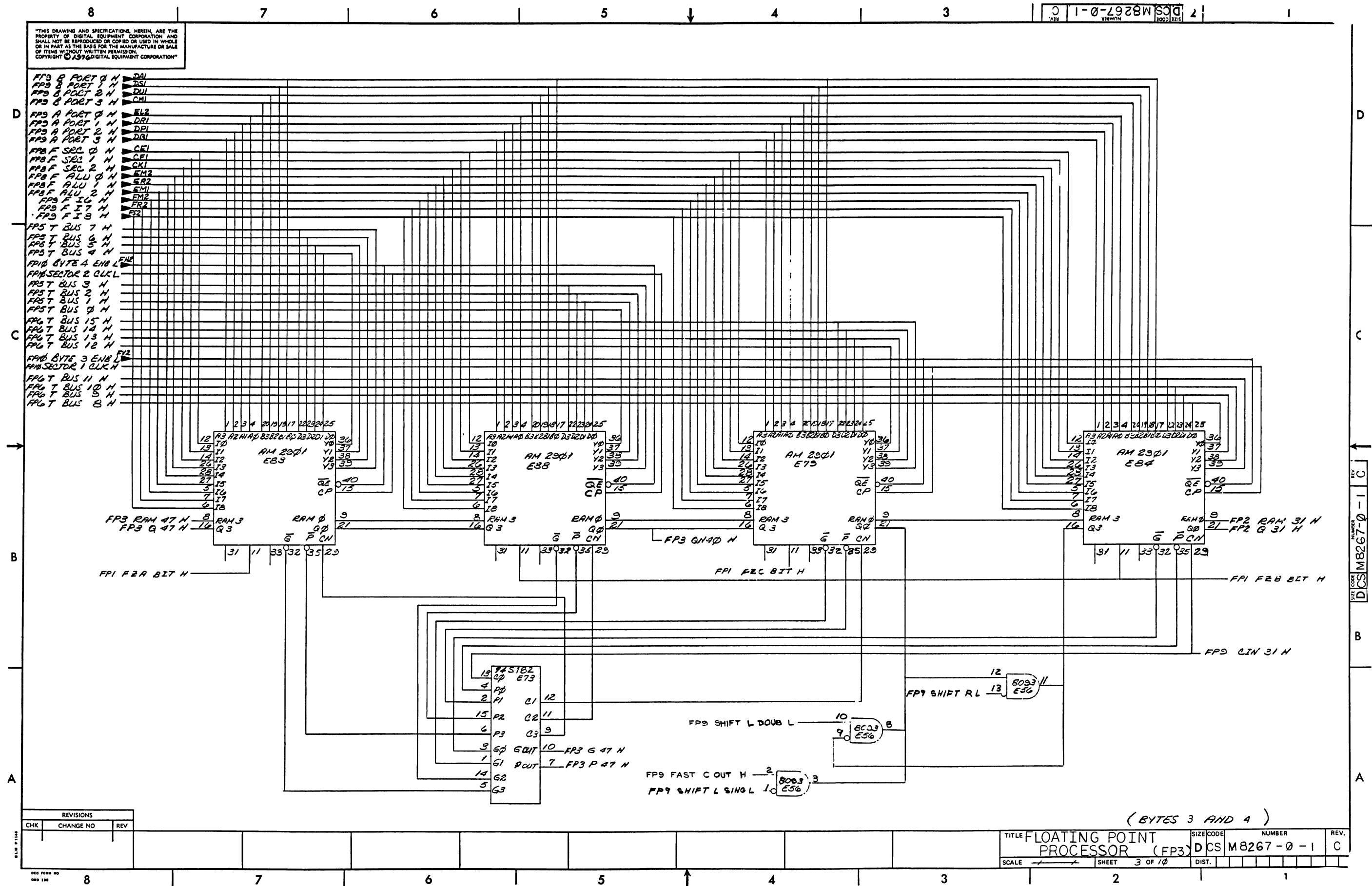
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SCALE 2/1	SHEET 3 OF 3	DIST		

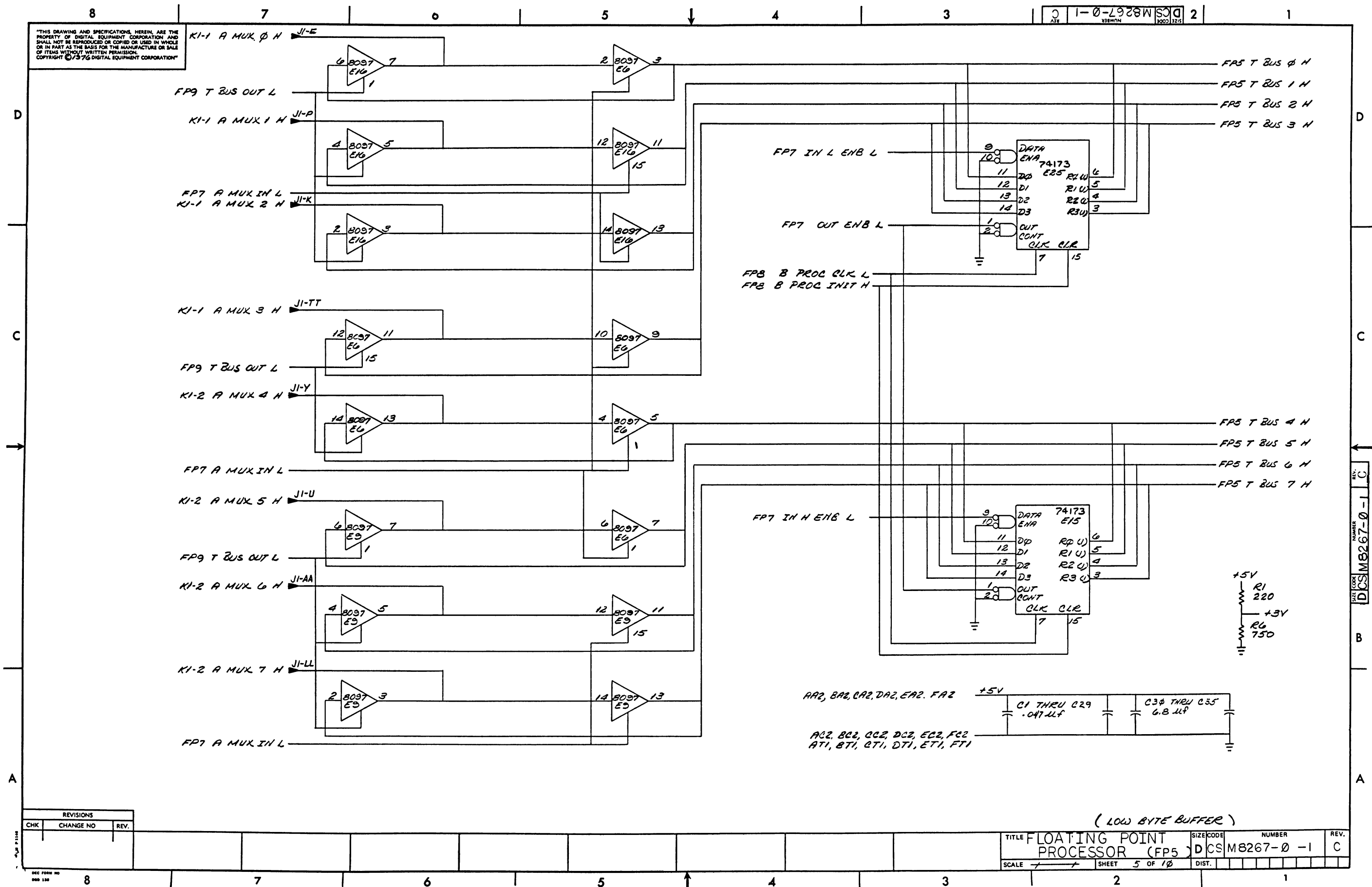
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MADE BY DATE		D. J. SIREEN 12 JULY 76		CHECKED DATE		F. SEIDMAN 18 AUG 76		SECTION											
ENG DATE		m. Sullivan 7/18/77		PROD DATE		R. B. KING 15 JUL 77		ISSUED SECTION											
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION	M8267-Ø-Ø												REF DESIGNATION			
1	D-MD-5012435-0-0	5012435	ETCHED BOARD	1												C30 thru C35 C1 thru C29 J1 J2 thru J5 (ONE CONNECTOR) R1 R7, R8 R2, R3, R9, R10, R4 R11 R6 E11, E20, E23 E32 E33 E22, E60 E35, E34 E30 E10 E13 E59, E69 E70 E27, E31, E28, E49, E52, E53, E57, E65, E67			
2		1005306	CAPACITOR, 6.8 uf, 35V, 10% TANT	6															
3		1012784	CAPACITOR, .047 uf 50V, CER	29															
4		1213506-01	RT. ANGLE HEADER 40 POS.	1															
5		1213506-02	RT. ANGLE HEADER 52 POS.	1															
6																			
7		1300271	RESISTOR, 220, 1/4W, 5%	1															
8		1300295	RESISTOR, 330, 1/4W, 5%	2															
9		1300316	RESISTOR, 470, 1/4W, 5%	5															
10		1300229	RESISTOR, 100, 1/4W, 5%	1															
11		1301401	RESISTOR, 750, 1/4W, 5%	1															
12		1910533	I.C. DEC 74SØ3	4															
13		1910535	I.C. DEC 74SØ5	1															
14		1910532	I.C. DEC 74SØØ	2															
15		1910534	I.C. DEC 74SØ4	2															
16		1910536	I.C. DEC 74S1Ø	1															
17		1910539	I.C. DEC 74S2Ø	1															
18		1910544	I.C. DEC 74S74	1															
19		1910547	I.C. DEC 74S153	2															
20		1910548	I.C. DEC 74S157	1															
21		1910550	I.C. DEC 74S174	9															
E.C.O. NO.																			
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						SHEET 1 OF 3		INSERTION PARTS LIST DATA BASE REV											

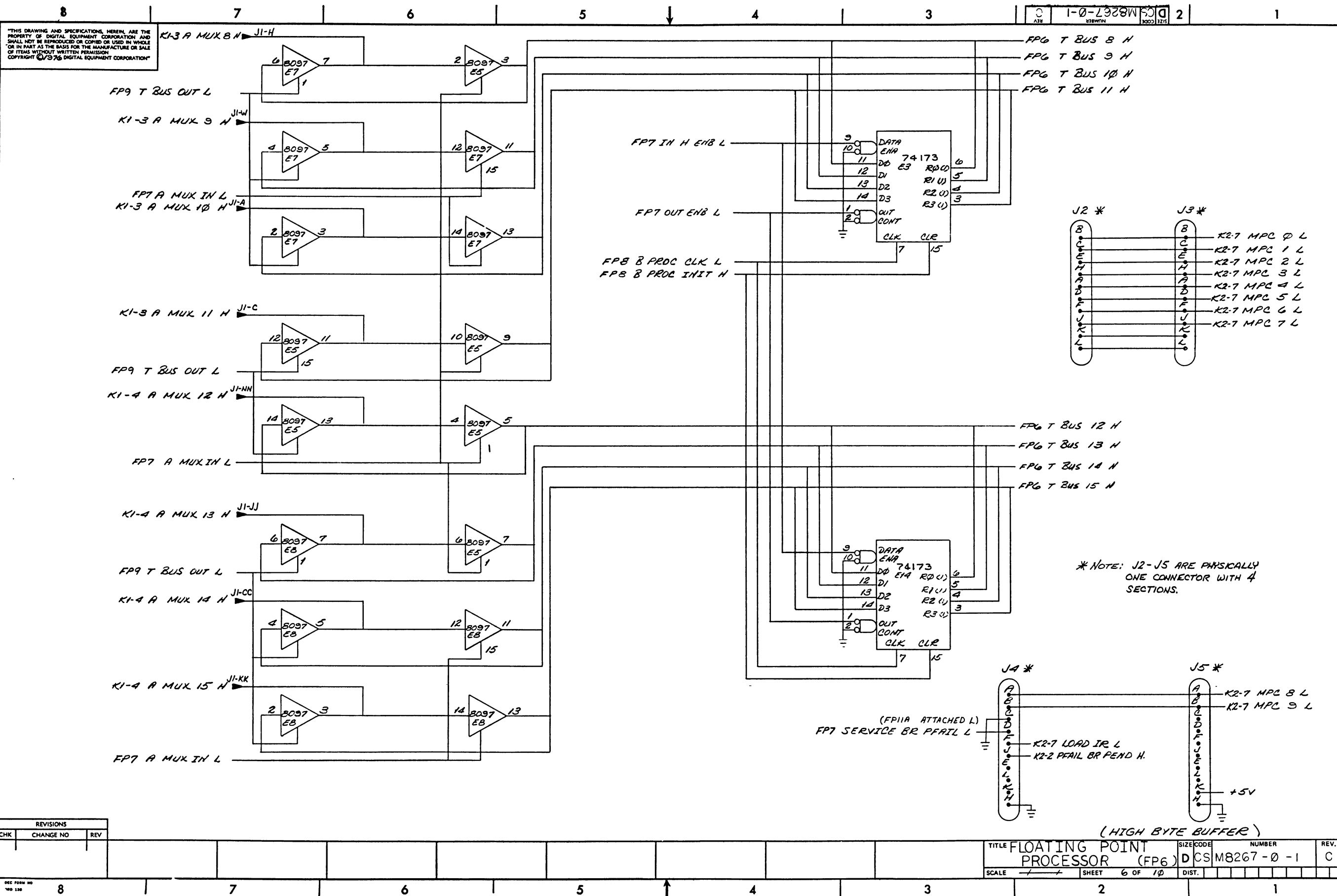
DIGITAL EQUIPMENT CORPORATION PARTS LIST				QUANTITY / VARIATION											NOTES:					
MADE BY D. J. SIREEN DATE 12 JULY 76		CHECKED F. SEIDMAN DATE 18 AUG 76		SECTION		M8267-Ø-Ø														
ENG <i>M. Sullivan</i> DATE 7/18/77		PROD R. B. KING DATE 15 JUL 77		ISSUED SECTION																
ITEM NO.	DRAWING NO.	PART NO.	DESCRIPTION															REF DESIGNATION		
22		1910837	I.C. DEC 8Ø93	3														E51 E56,E58		
23		1910957	I.C. DEC 74S175	2														E18,E26		
24		1911527	I.C. DEC 8Ø97	6														E5 thru E9,E16		
25		1912097	I.C. DEC 74S182	6														E50,E63,E71 thru E74		
26		1912388	I.C. DEC 74SØ2	1														E24		
27		1912746	I.C. DEC 74S37	1														E12		
28		1911330	I.C. DEC 74173	4														E3,E14,E15,E25		
29		1913245	I.C. DEC AM 29Ø1	16														E61 E62,E77 thru E90		
30		1911637	I.C. DEC 74132	1														E4		
31		1212385	40 PIN SOCKET	16														E61,E62 E77 thru E90		
32		1000015	CAPACITOR , 82 pf, 5%	1														C36		
33		7417214	HANDLE, MODIFIED	1																
34			I.C. SPARES	4														E1,E2,E29,E39		
35		9000024-01	EYELET	9																
36		23157A1	I.C. DEC PROM 32 x 8 T.S.	1														E17		
37		23153A1	I.C. DEC PROM 32 x 8 T.S.	1														E19		
38		23154A1	I.C. DEC PROM 32 x 8 T.S.	1														E21		
39		23155A1	I.C. DEC PROM 32 x 8 T.S.	1														E54		
40		23158A1	I.C. DEC PROM 32 x 8 T.S.	1														E55		
41		23156A1	I.C. DEC PROM 32 x 8 T.S.	1														E76		
42		23Ø14F1	I.C. DEC PROM 1K x 4 O.C.	1														E64		
E.C.O. NC																				
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					SHEET 2 OF 3		INSERTION PARTS LIST DATA BASE REV													





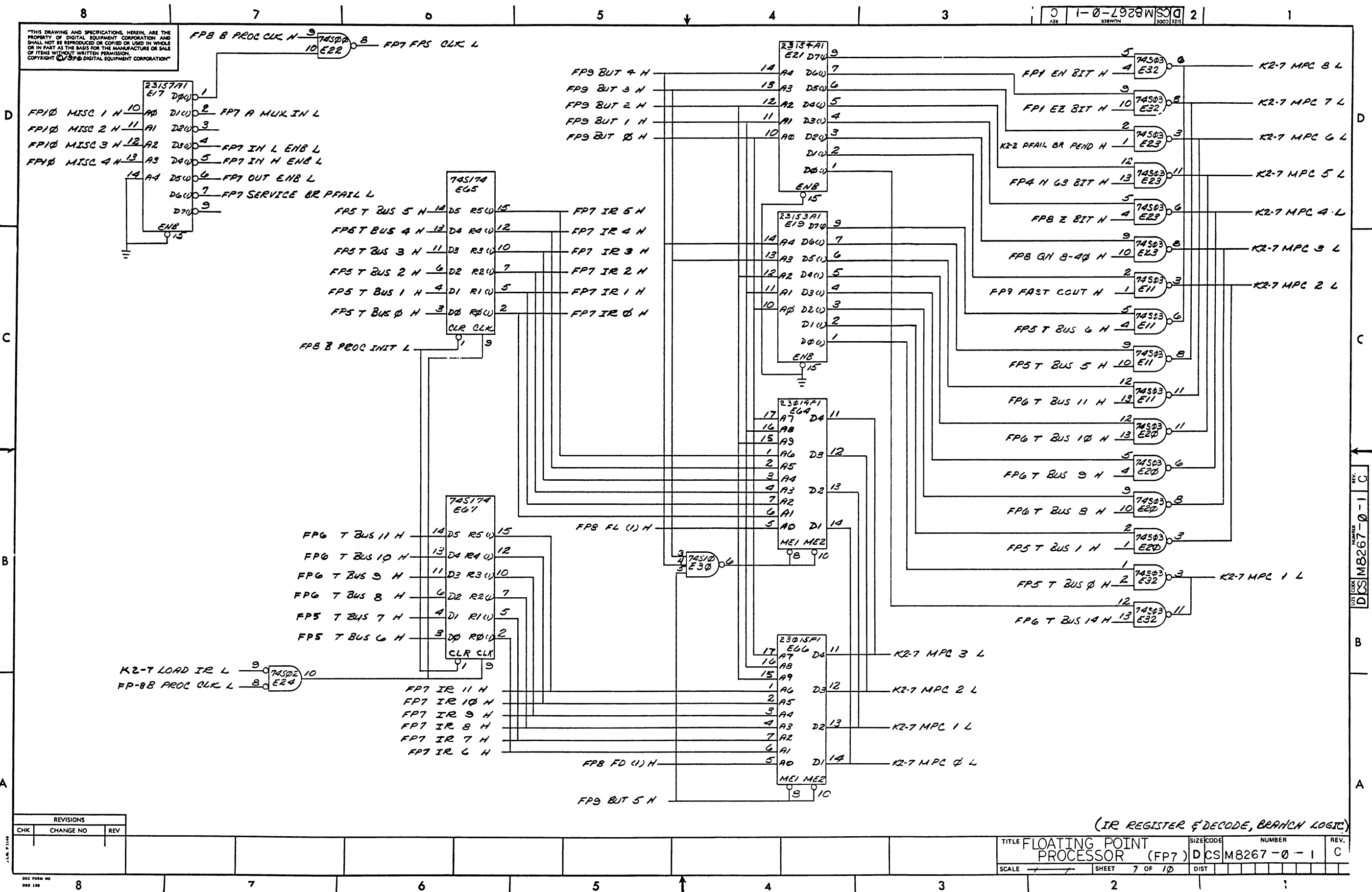


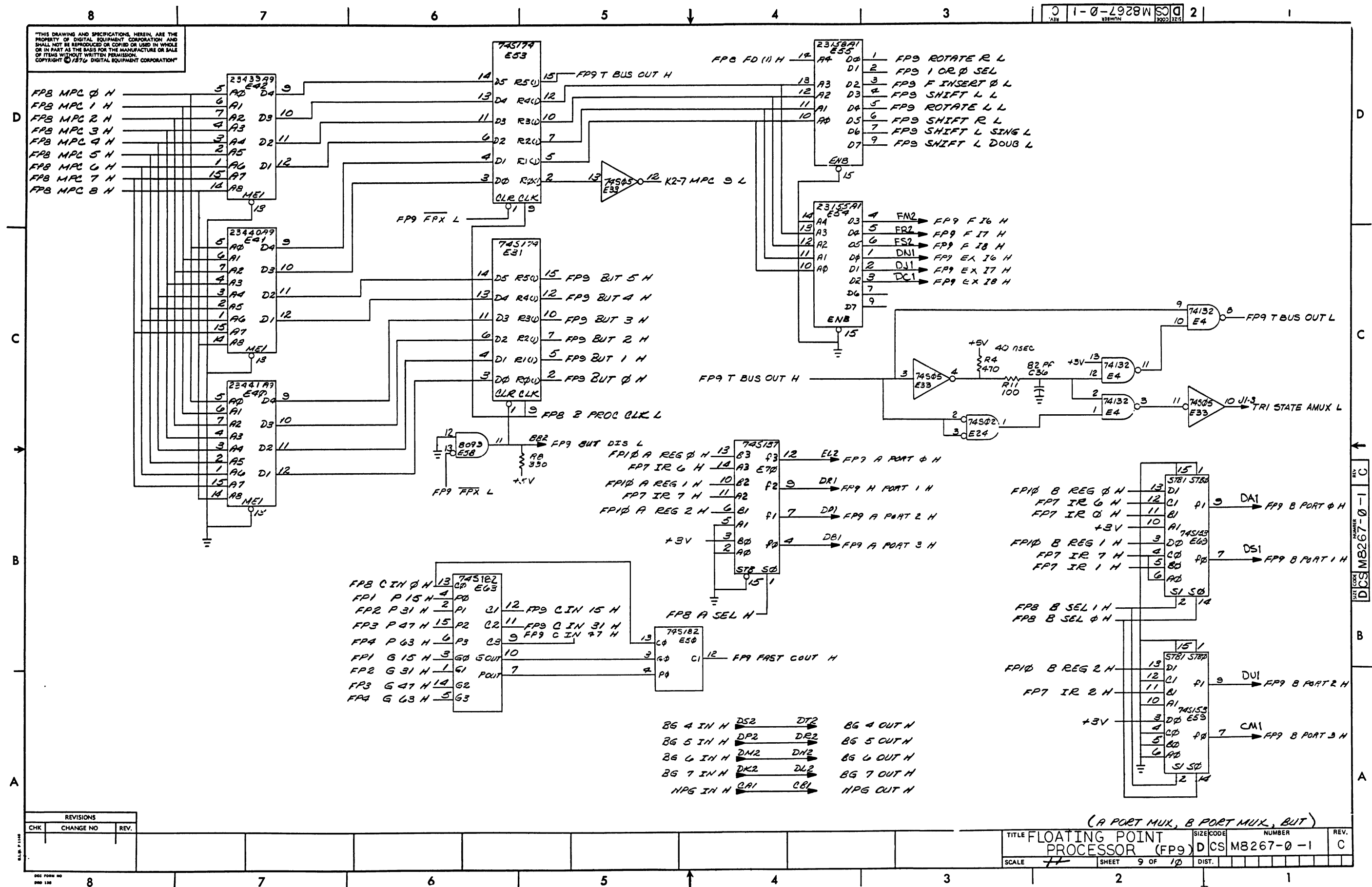


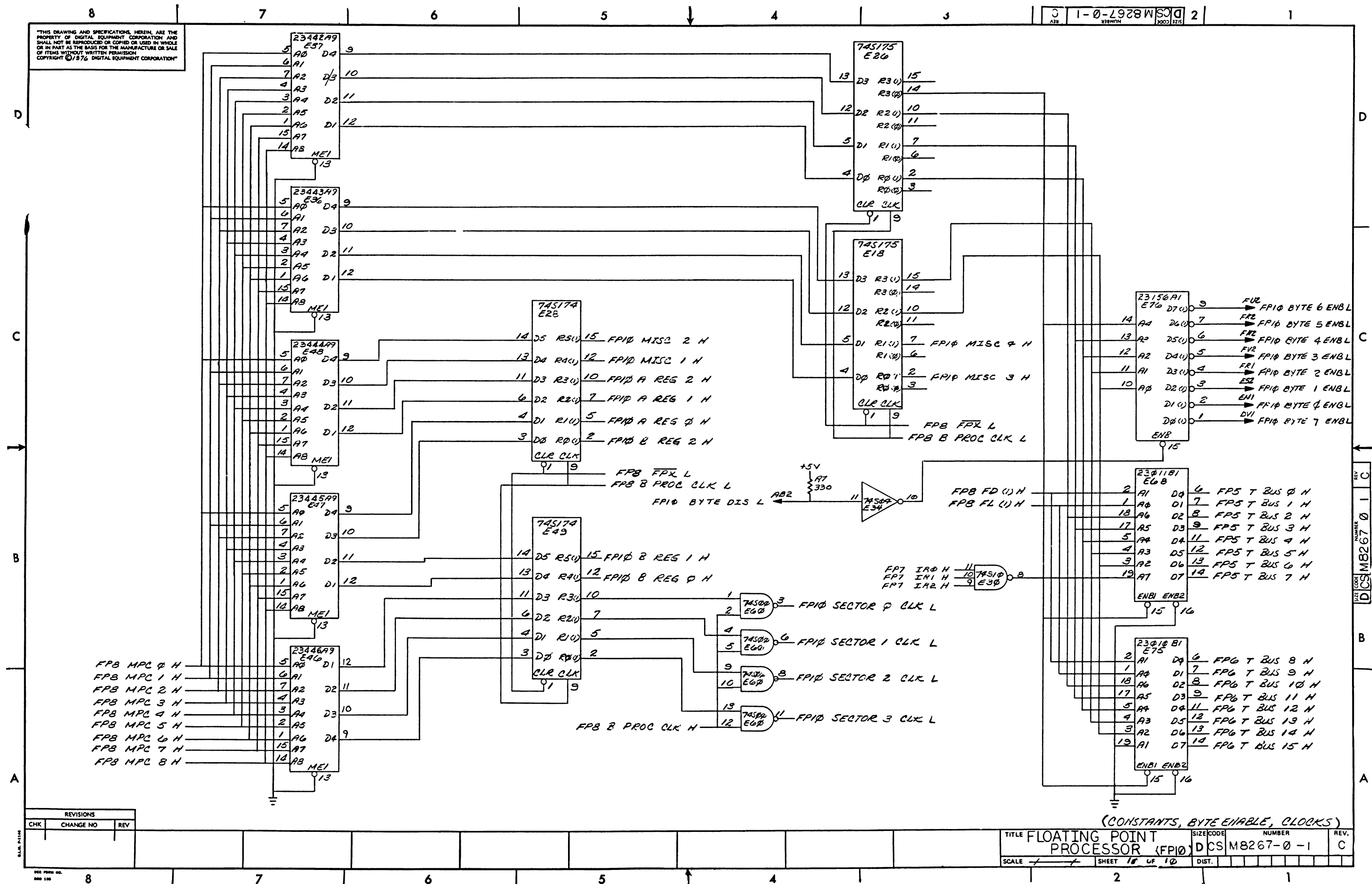


REVISIONS		
CHK	CHANGE NO	REV

TITLE	FLLOATING POINT PROCESSOR (FP6)	SIZE CODE	NUMBER	REV.
SCALE	1/16"	SHEET	6 OF 10	DIST.







8

7

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0-0-1288H

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1976

D

C

B

A

NOTES:

CHANGE NO. REV.

ETCH REV. B
P.C. DESIGN DATA BASE REV. B

SIGNATURES	DATE
DRN. F. MULLIGAN	10/21/76
CHK'D. F. SEIDMAN	12-3-76
ENG. R. Barry	3 DEC 76
PROJ. ENG. R. Barry	3 DEC 76
PROD. R. Barry	6 Dec 76
SCALE 2/1	
SHT. 1 OF 3	
NEXT HIGHER ASSY. B-DD-H8821-0	

digital			
TITLE 40 PIN INTERCONNECT BOARD			
SIZE	CODE	NUMBER	REV
1 D	UA	H8821-0-0	A

8

7

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5

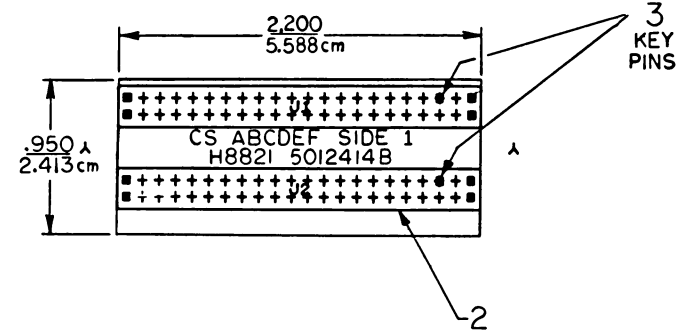
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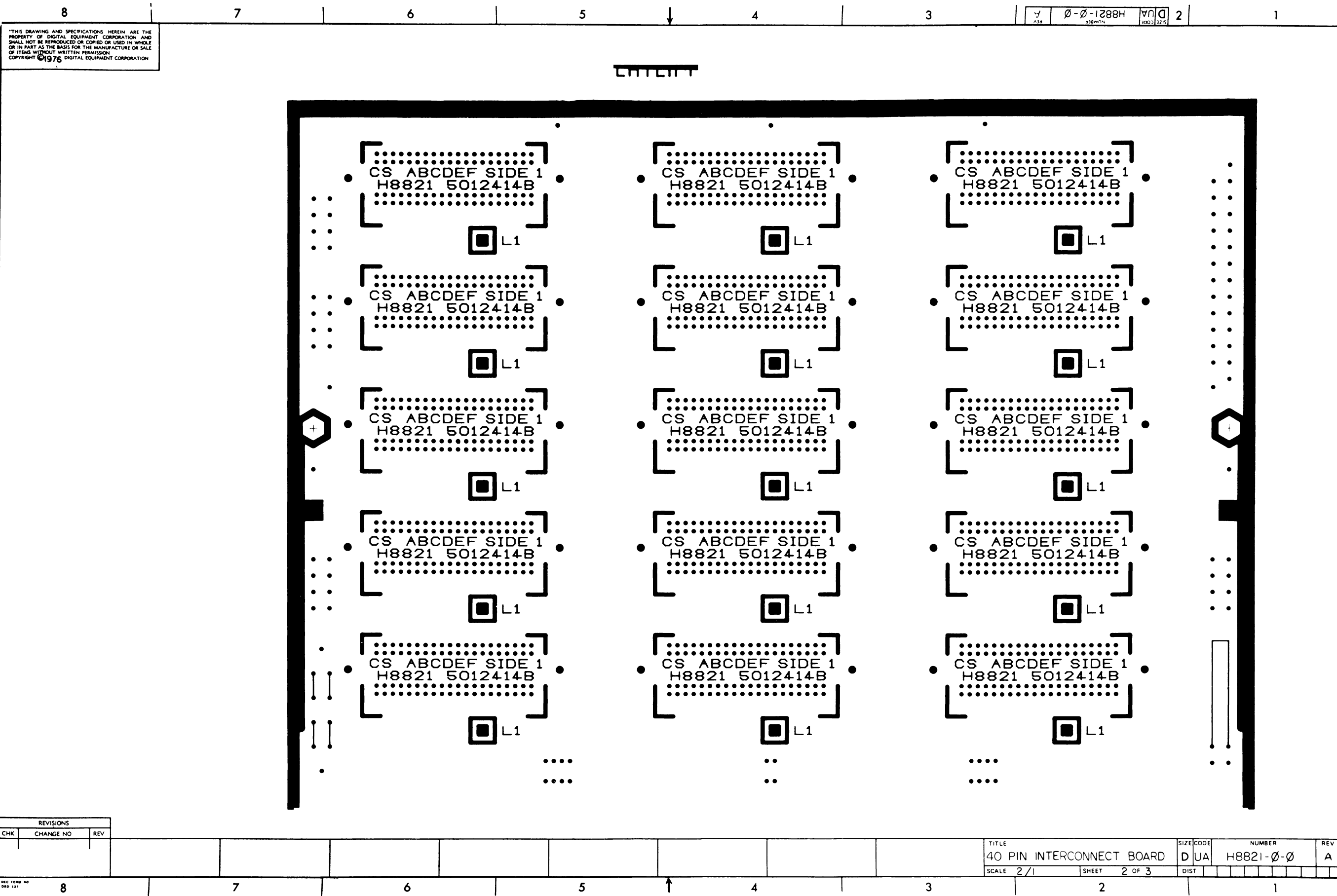
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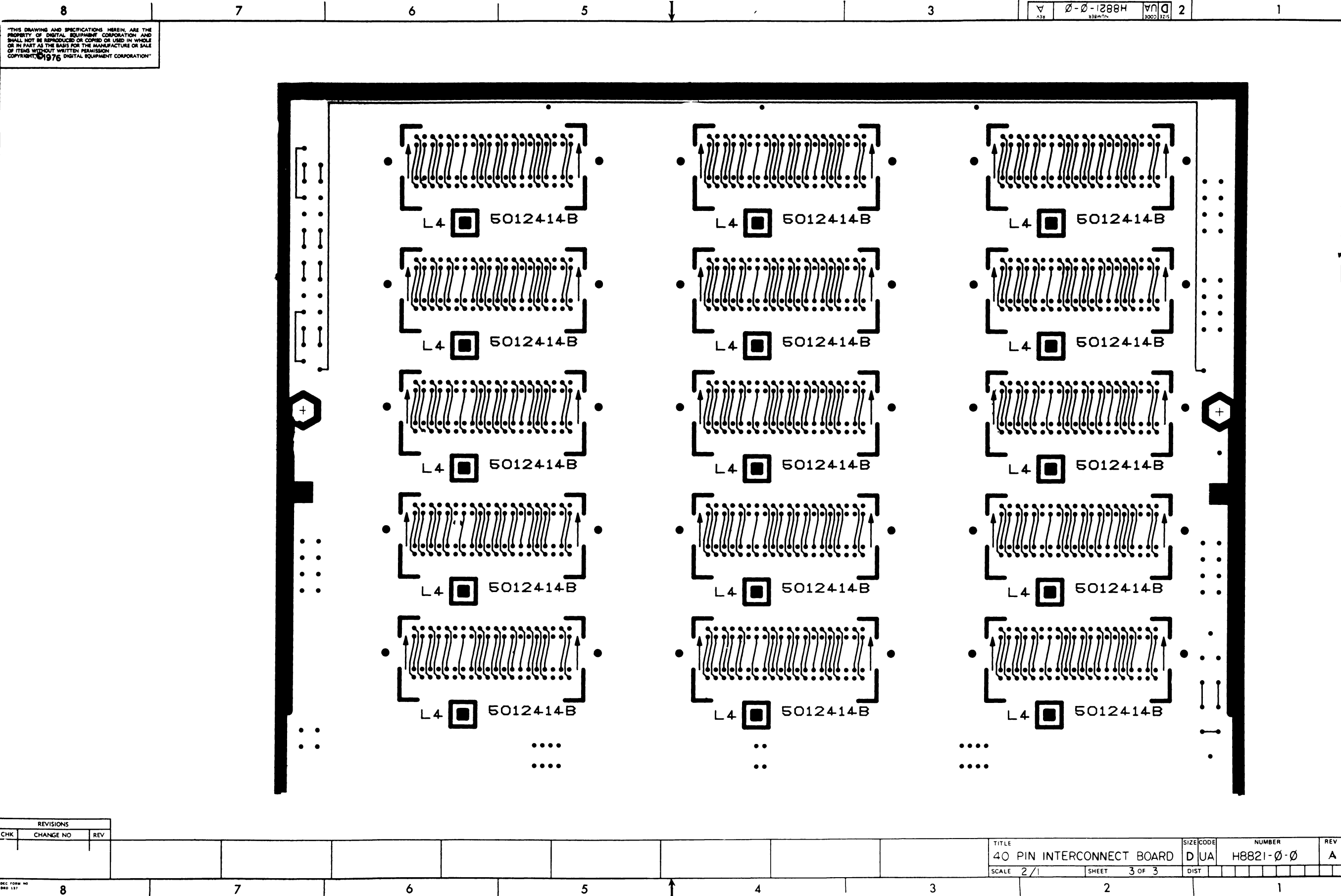
MS# 60955





REVISIONS		
CHK	CHANGE NO	REV

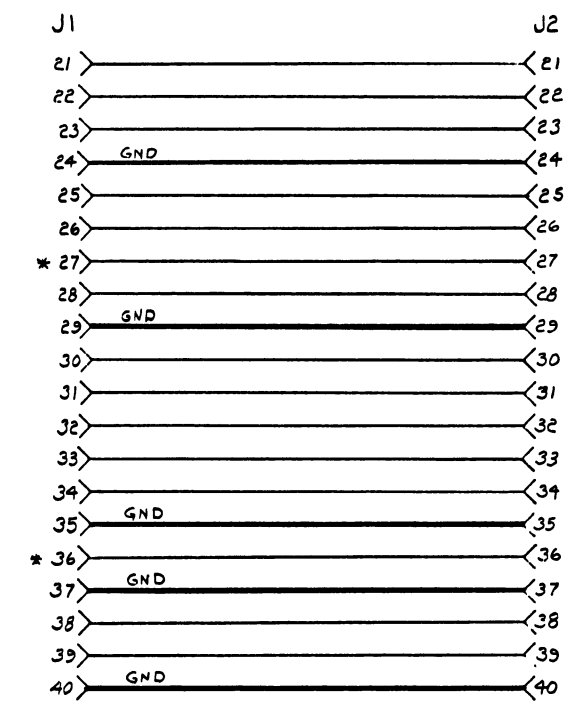
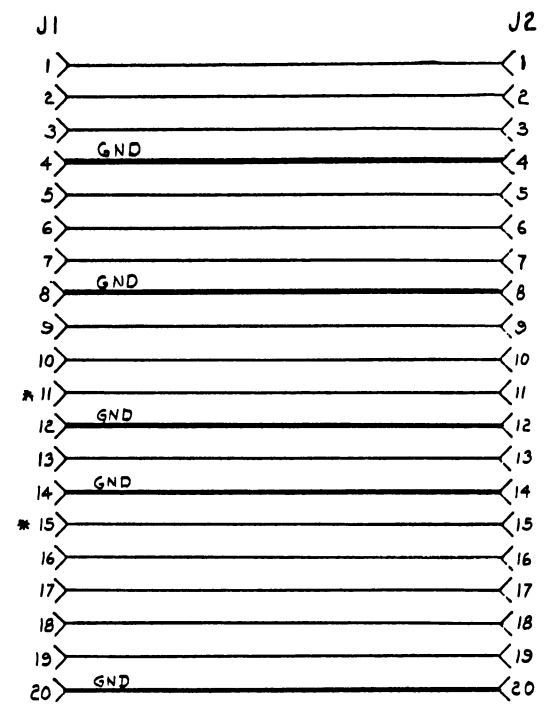
TITLE		SIZE	CODE	NUMBER		REV
40 PIN INTERCONNECT BOARD		D	UA	H8821-0-0		A
SCALE 2/1		SHEET 2 OF 3		DIST		



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[illegible]

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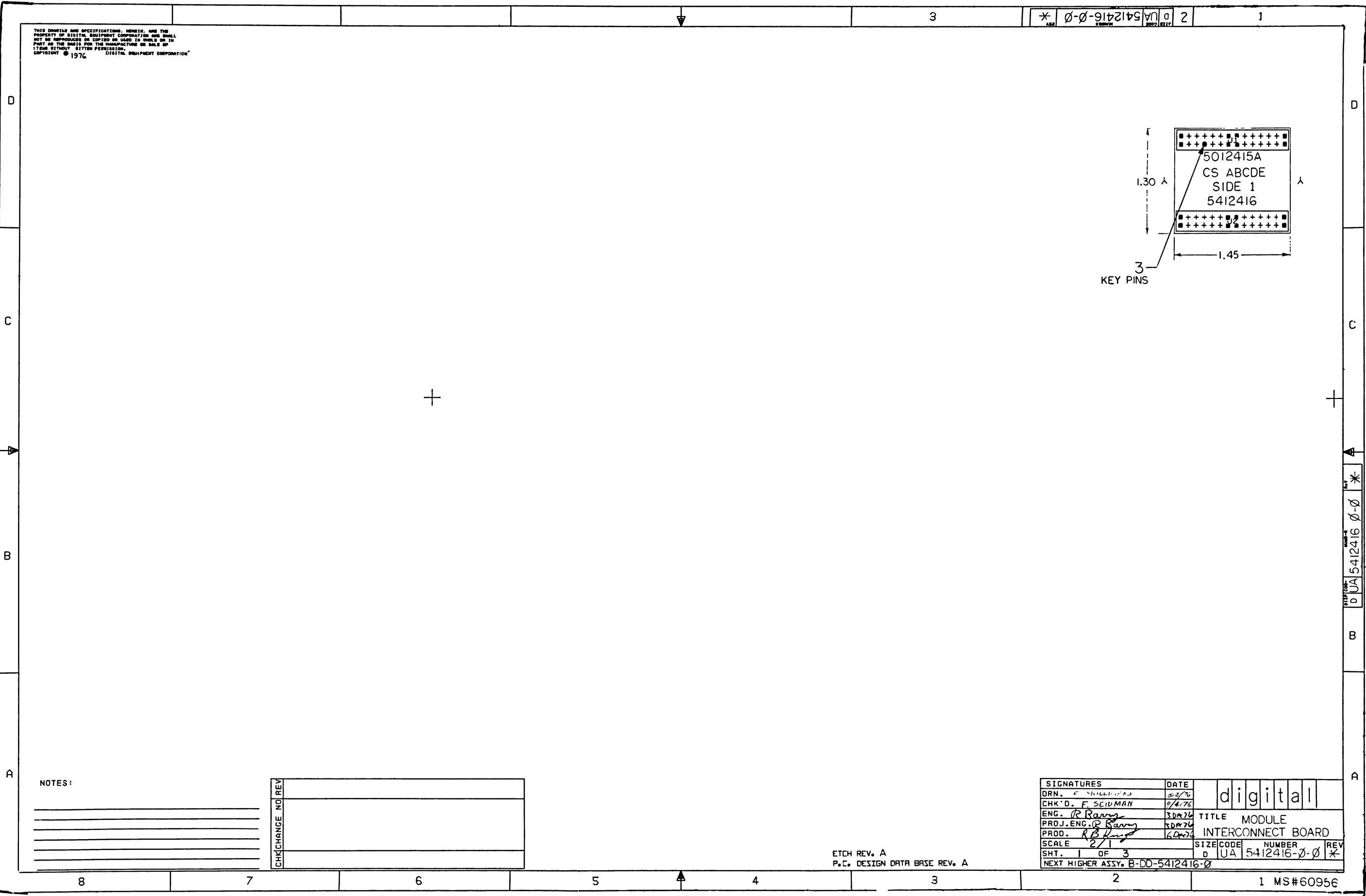
- NOTES:
- * DESIGNATES CONDUCTORS TO BE LOCATED ON LAYER 2
 - GND WILL BE ON LAYER 3 * REMAINING ETCH ON LAYER 4
 - LAYER 1 (SIDE 1) WILL BE FREE OF ALL CIRCUITRY

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				
TOLERANCES				
DECIMALS	ANGLES			
.xxx = .005	±0° 30'			
.xx = .02				
.x = .1				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V				
MATERIAL				
NEXT HIGHER ASSY.				
FINISH				
SCALE NA				
SHEET 1 OF 1				

PARTS LIST			
DRN.	DATE	TITLE	
F. MULLIGAN	8/3/76	40 PIN INTERCONNECT BOARD	
CHK'D	DATE	REV.	
L. Sedman	8/14/76	A	
ENG	DATE	SIZE CODE	
R. Barry	3 DEC 76	C CS	
PROJ. ENG.	DATE	NUMBER	
R. Barry	3 DEC 76	H8821-0-1	
PROD.	DATE	REV.	
R. Barry	6 DEC 76	A	

REV.	CHANGE NO.

CHK	NO.



8		7		6		5		4		3		2		1	
D		C		B		A		D		C		B		A	
8		7		6		5		4		3		2		1	
8		7		6		5		4		3		2		1	

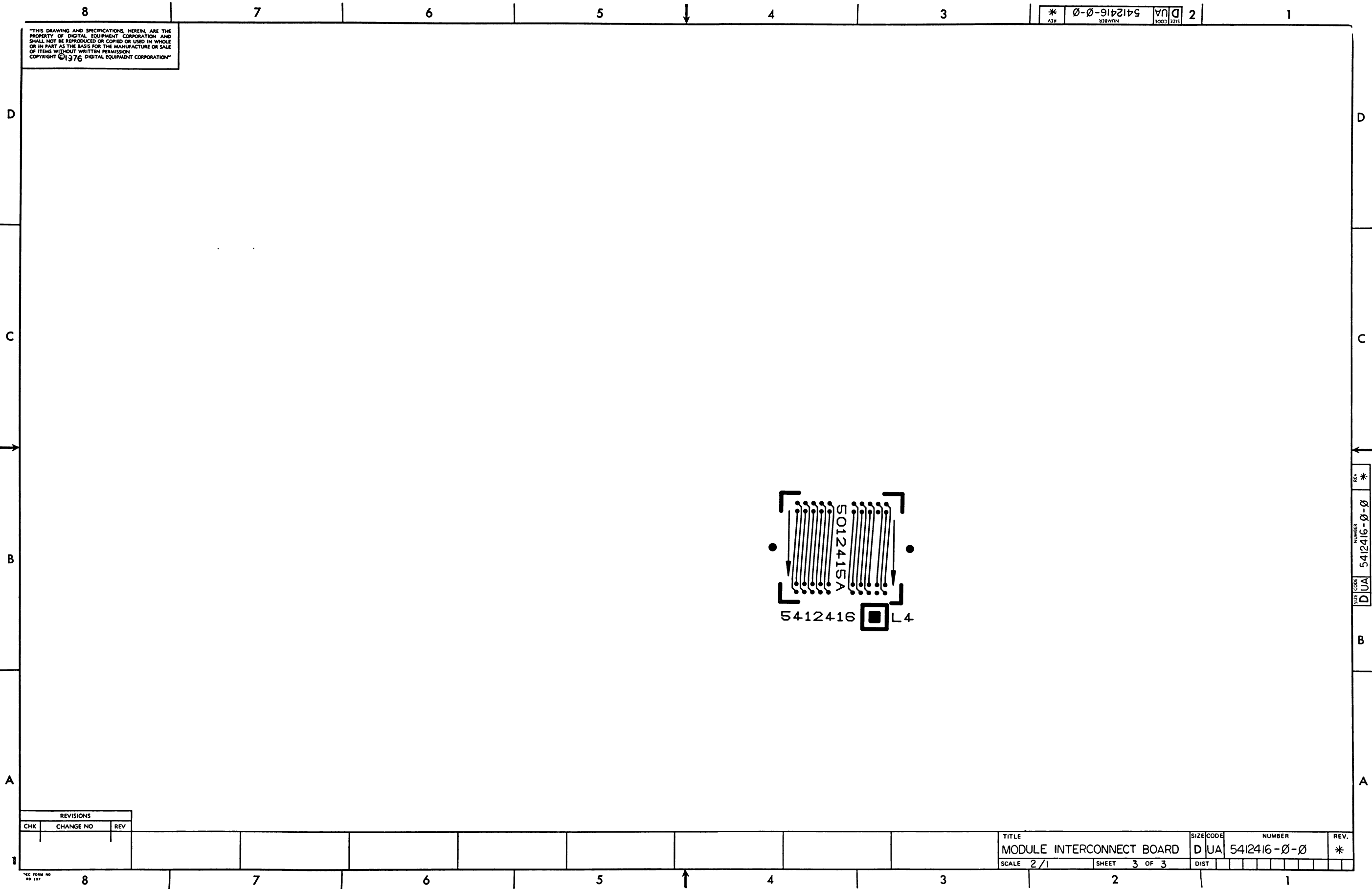
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5012415A
CS ABCDE
SIDE 1
5412416

L1

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER		REV.
MODULE INTERCONNECT BOARD		D UA	5412416-Ø-Ø		*
SCALE	2/1	SHEET	2 OF 3		DIST.



DIGITAL EQUIPMENT CORPORATION

PARTS LIST

MADE BY	F. MULLIGAN
DATE	8 AUG 76

CHECKED	F. SEIDMAN
DATE	9 AUG 76

SECTION

ENG
DATE *R. Barry* 3 DEC 76

DATE	
PROD	RB King
DATE	6 Dec 75

ISSUED SECTION

ITEM
NO.

DRAWING NO.

PART NO.

DESCRIPTION

1

D-MD-5012415-0-0

5012415

ETCH BOARD

2

12-13508-00

CONNECTOR. 28 PIN REWORKED

3

12-13508-03

KEY PINS

5412416-0-0

QUANTITY / VARIATION

NOTES:

REF DESIGNATION

J1-J2

E.C.O. NO.:

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TITLE	MODULE INTERCONNECT BOARD
-------	---------------------------

ASSY NO.	
----------	--

D-UA-5412416 Ø Ø

SHEET : OF 1

SIZE	CODE
B	PL

NUMBER

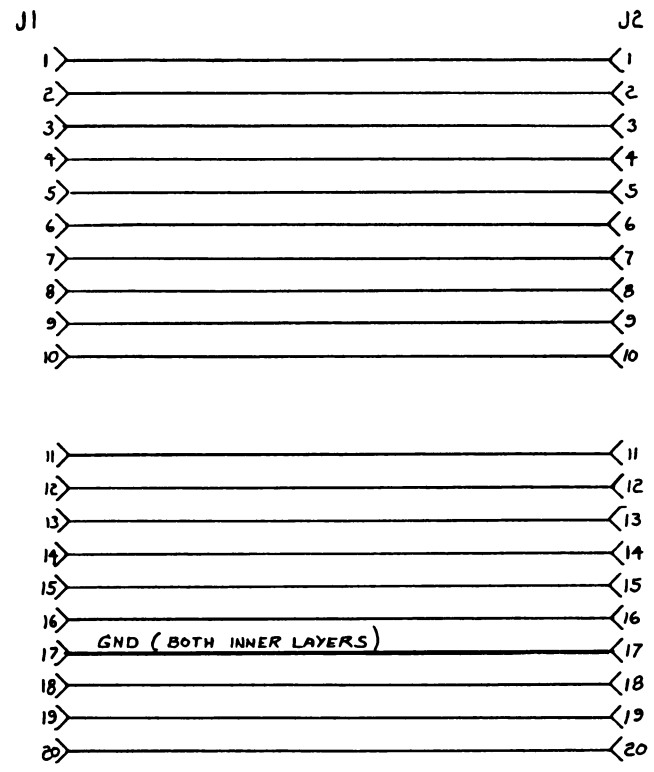
5412416-Ø-Ø

REV

*

INSERTION PARTS LIST DATA BASE REV ~~11~~

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NOTE :
1- ALL ETCH ON SIDE 2 ONLY EXCEPT GND PLANES.

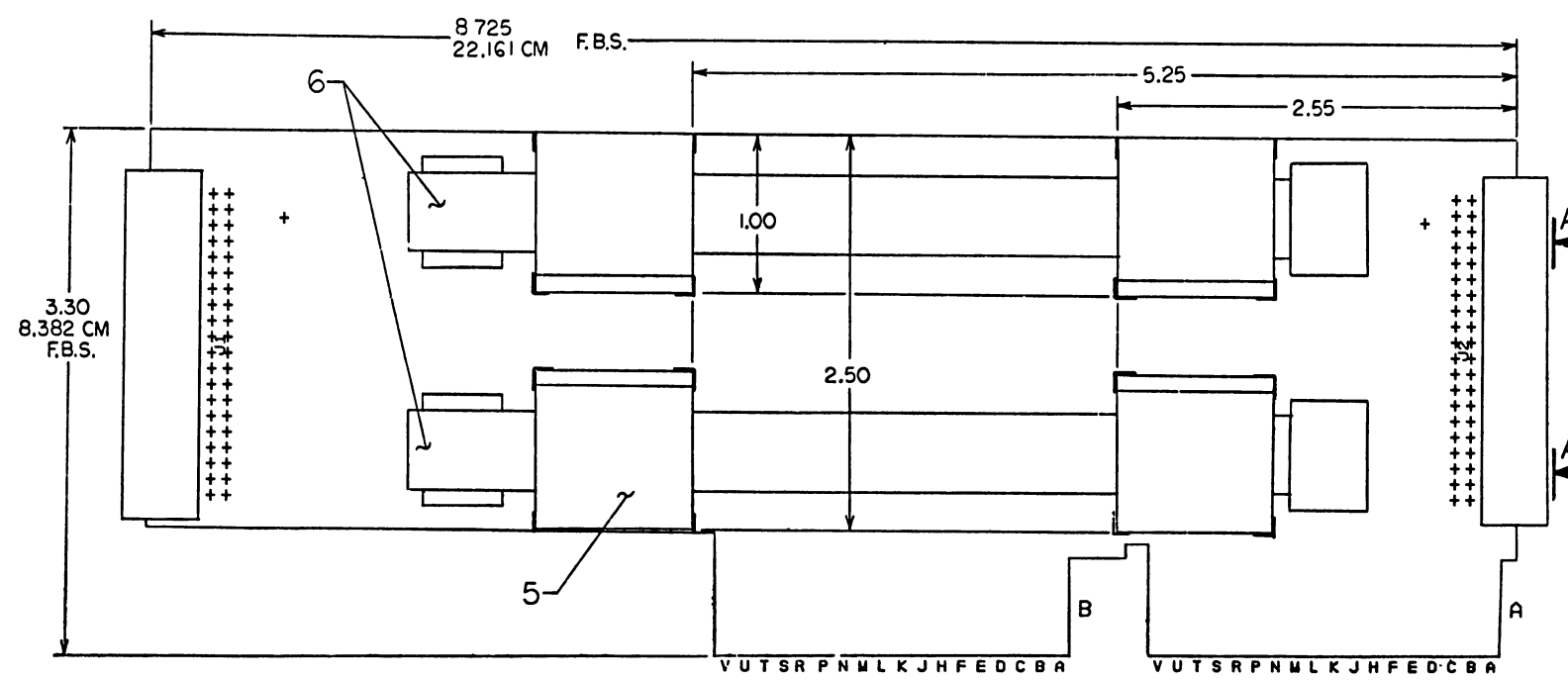
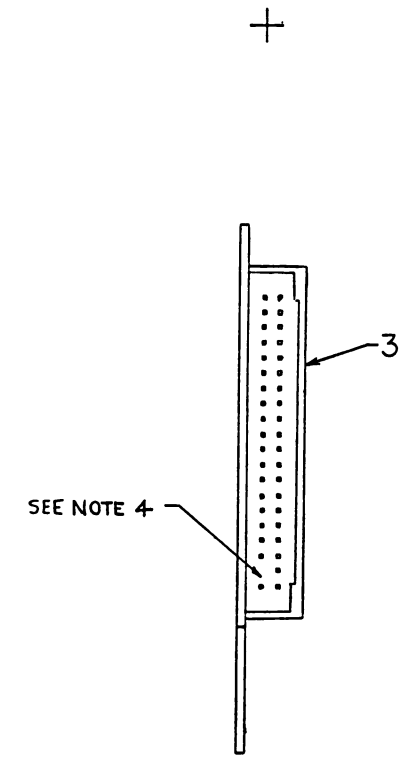
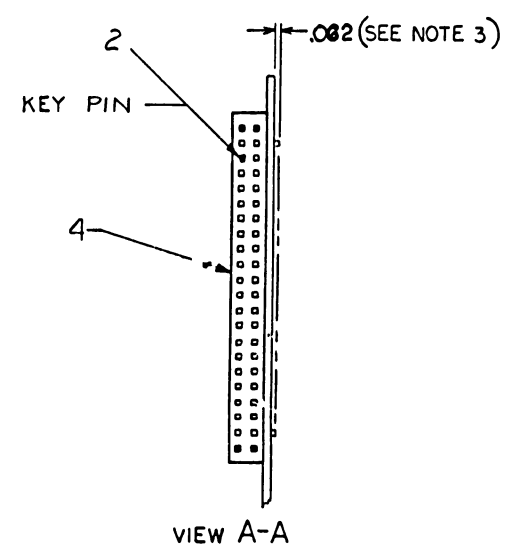
REVISIONS		REV.
CHK	CHANGE NO.	

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES	DRN. F. MULLIGAN	DATE 8/2/76	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
TOLERANCES	CHK'D J. Seashman	DATE 8/8/76		
DECIMALS	ENG R. Barry	DATE 3 Dec 76		
ANGLES	PROJ. ENG. R. Barry	DATE 3 Dec 76		
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V	PROJ. R. Barry	DATE 6 Dec 76		
MATERIAL	NEXT HIGHER ASSY.		TITLE MODULE INTERCONNECT BOARD	
FINISH	SCALE N/A	SHEET 1 OF 1	SIZE C	CODE CS
			NUMBER 5412416-0-1	REV. *
			DIST.	

REV.	*
NUMBER	5412416-0-0
SIZE CODE	C
CS	

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COMPONENT SIDE VIEW



- NOTES:
1. THIS MODULE CAN BE USED AS A JUMPER CONTINUITY CARD.
 2. ITEM 6 CABLES ARE USED FOR MAIN-TENANCE PURPOSES ON THE FPIIA OPTIONS. SEE E-UA-FPIIA-0-0.
 3. TRIM ITEM 4 LEADS AFTER MOUNTING.
 4. REMOVE PIN INDICATED. (TO REMOVE PIN, STRAIGHTEN BACK END AND PULL OUT FROM FRONT OF CONNECTOR.)
 5. USE CABLE CLAMPS ITEM 5 TO STORE CABLES ITEM 6 WHEN NOT IN USE.

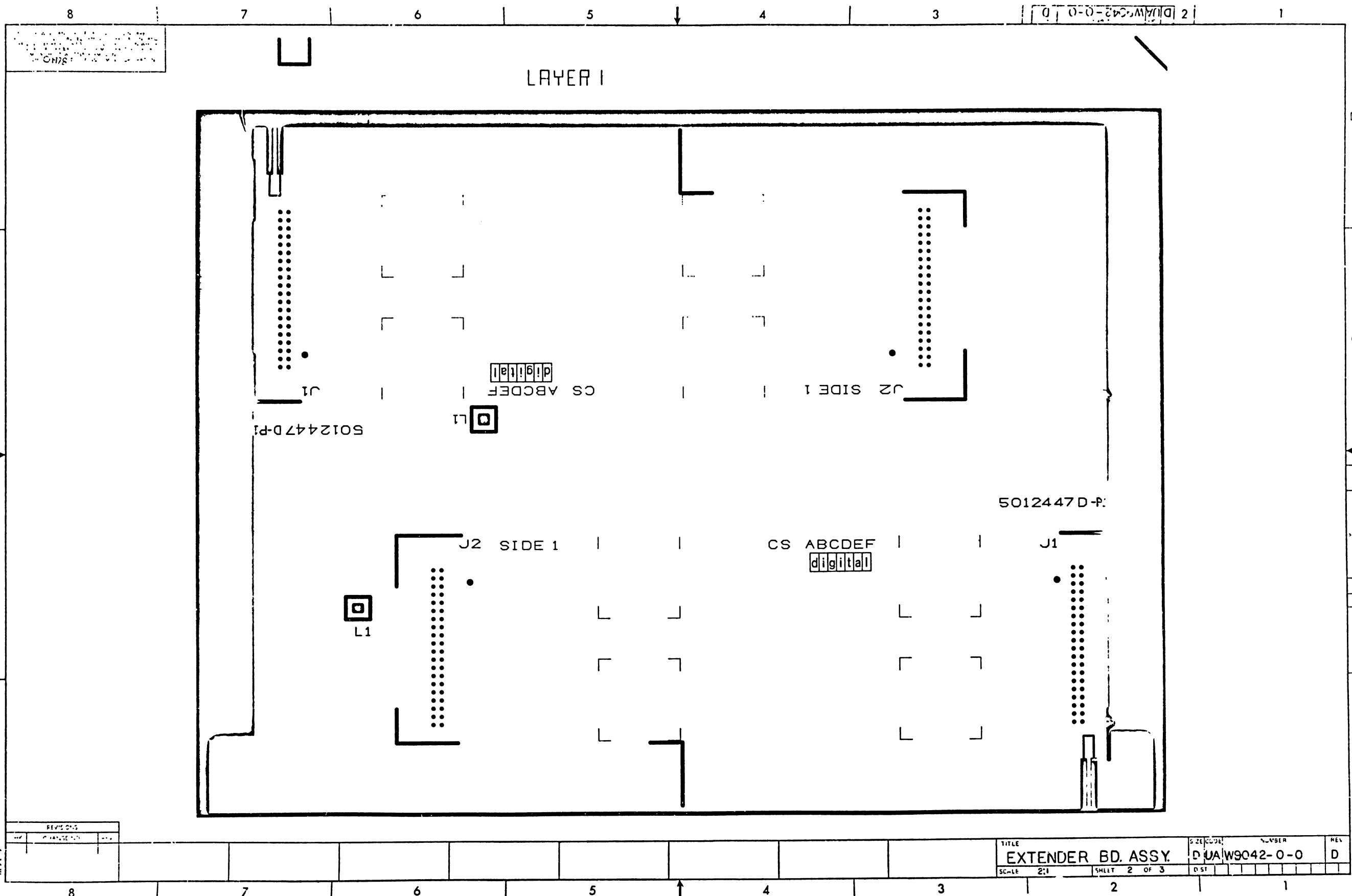
CHG	NO	REV	DATE	BY	CHKD	DATE	BY
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3	1	C	11/1/76	R. PUZZO			
4	1	C	11/1/76	R. PUZZO			
5	1	C	11/1/76	R. PUZZO			
6	1	C	11/1/76	R. PUZZO			
7	1	C	11/1/76	R. PUZZO			
8	1	C	11/1/76	R. PUZZO			
9	1	C	11/1/76	R. PUZZO			
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100	1	C	11/1/76	R. PUZZO			

ETCH REV. D-PI
PC. [REDACTED] REV. D-PI

SIGNATURES	DATE
DRN. P. PUZZO	11/1/76
CHK'D. R. PUZZO	11/1/76
ENG. P. PUZZO	11/1/76
PROJ. ENG. P. PUZZO	11/1/76
PROD. L. S. [REDACTED]	11/1/76
SCH. 2/1	
SHT. 1 OF 3	
NEXT HIGHER ASSY. B-DD-W9042-0	

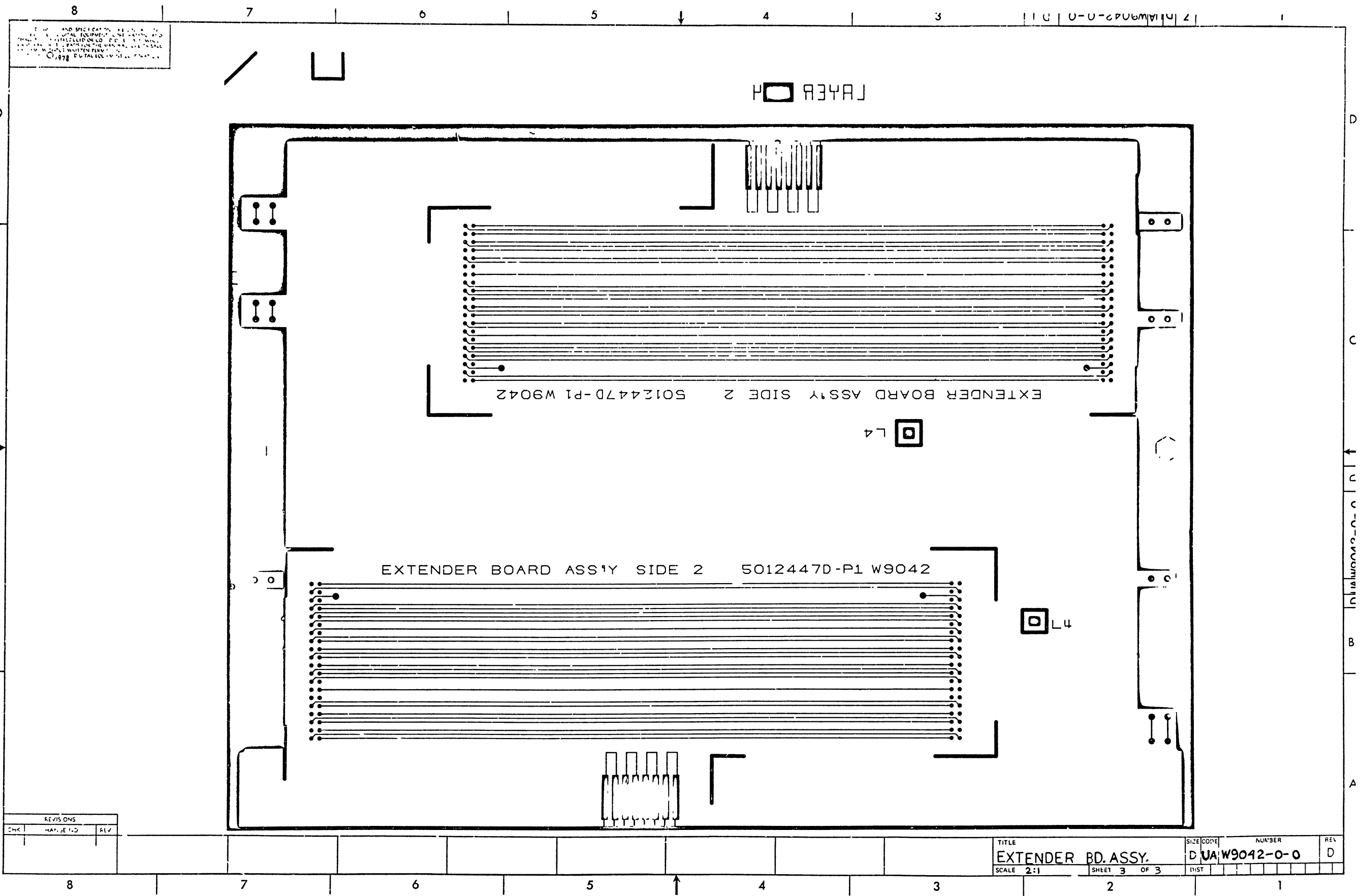
digital	TITLE
EXTENDER BOARD ASSEMBLY	
SIZE/CUT	NUMBER
D UA W9042-0-0	REV
	D

1 MS# 252 142

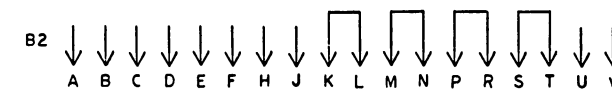
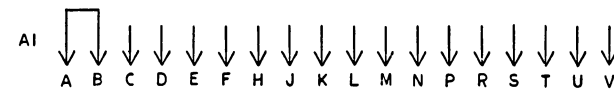
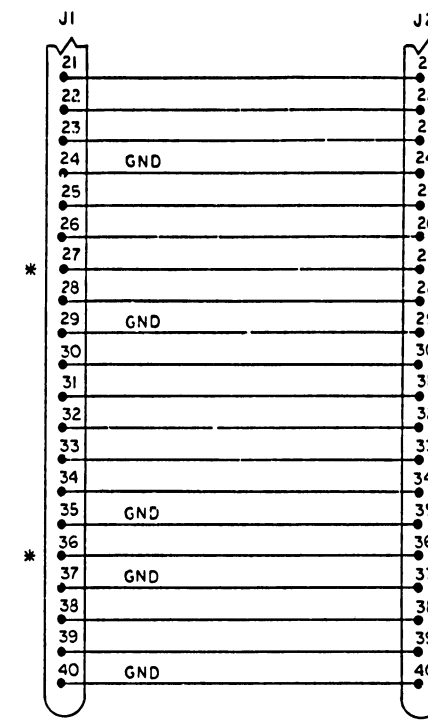
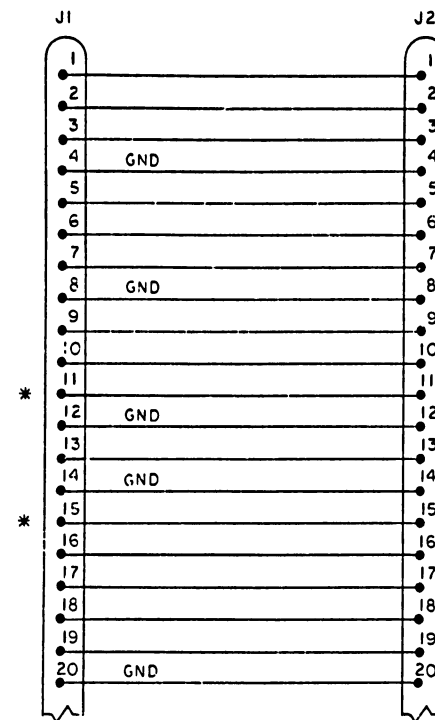


REVISIONS		
REV	DESCRIPTION	DATE

TITLE		SIZE	CODE	NUMBER		REV
EXTENDER BD. ASSY.		D	UA	W9042-0-0		D
SCALE		2:1	SHEET		2 OF 3	DIST



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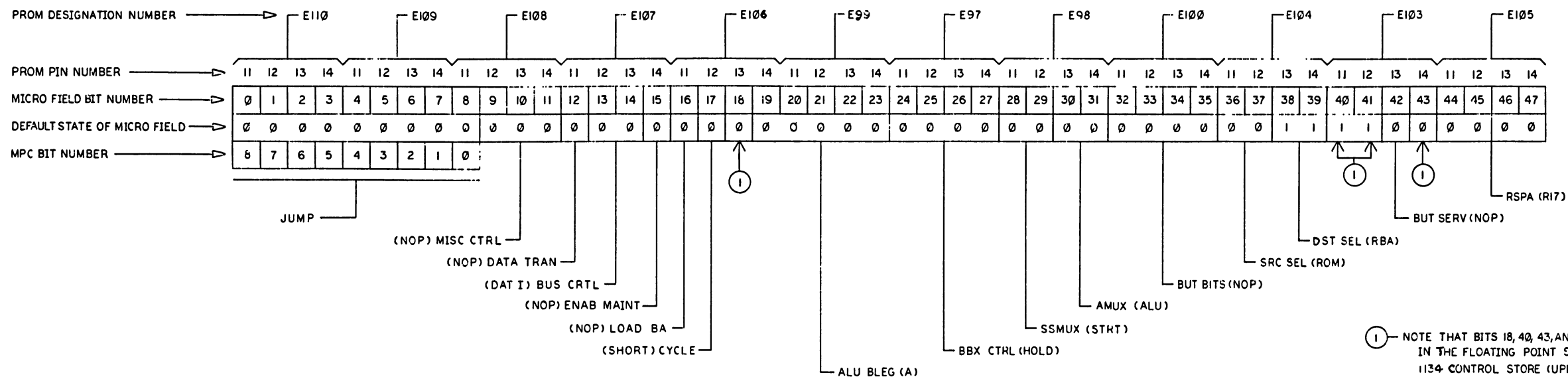
NOTE: 1. (*) DESIGNATES ETCH CONNECTION ON LAYER 2

REVISIONS		
CHKD	CHANGE NO.	REV.
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3	0042-00003	4
4	0042-00003	2
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57	0042-00003	0
58	0042-00003	0
59	0042-00003	0
60	0042-00003	0
61	0042-00003	0
62	0042-00003	0
63	0042-00003	0
64	0042-00003	0
65	0042-00003	0
66	0042-00003	0
67	0042-00003	0
68	0042-00003	0
69	0042-00003	0
70	0042-00003	0
71	0042-00003	0
72	0042-00003	0
73	0042-00003	0
74	0042-00003	0
75	0042-00003	0
76	0042-00003	0
77	0042-00003	0
78	0042-00003	0
79	0042-00003	0
80	0042-00003	0
81	0042-00003	0
82	0042-00003	0
83	0042-00003	0
84	0042-00003	0
85	0042-00003	0
86	0042-00003	0
87	0042-00003	0
88	0042-00003	0
89	0042-00003	0
90	0042-00003	0
91	0042-00003	0
92	0042-00003	0
93	0042-00003	0
94	0042-00003	0
95	0042-00003	0
96	0042-00003	0
97	0042-00003	0
98	0042-00003	0
99	0042-00003	0
100	0042-00003	0

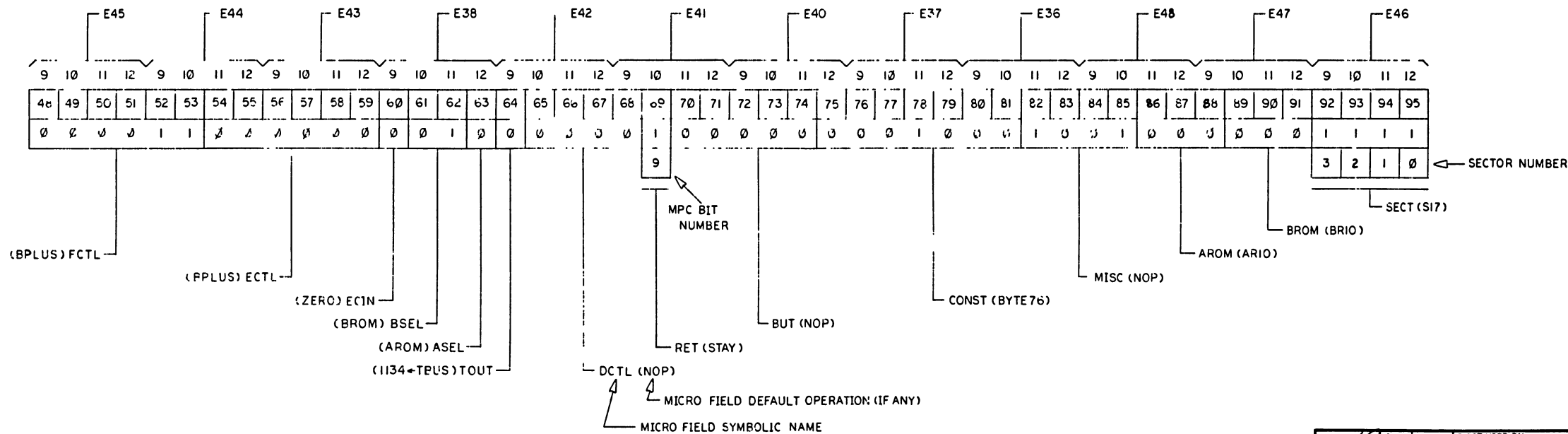
DRN. <i>J Vincent</i> 8-25-76		FIRST USED ON		digital	
CHK'D <i>Lee</i> 7-22-76					
ENG. <i>R Barry</i> 1DE76		TITLE			
PROJ. ENG. <i>R Barry</i> 1DE76		EXTENDER BOARD			
PROD <i>PAV</i> 1 Dec 76		ASSEMBLY			
NEXT HIGHER KSSY.					
		SIZE CODE		NUMBER	
		D CS		W9042-0-1	
SCALE <i>1/1</i>		D		REV. D	
SHEET <i>1</i> OF <i>1</i>		DIST.			

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FPII-A CONTROL WORD (WITHIN M8266)



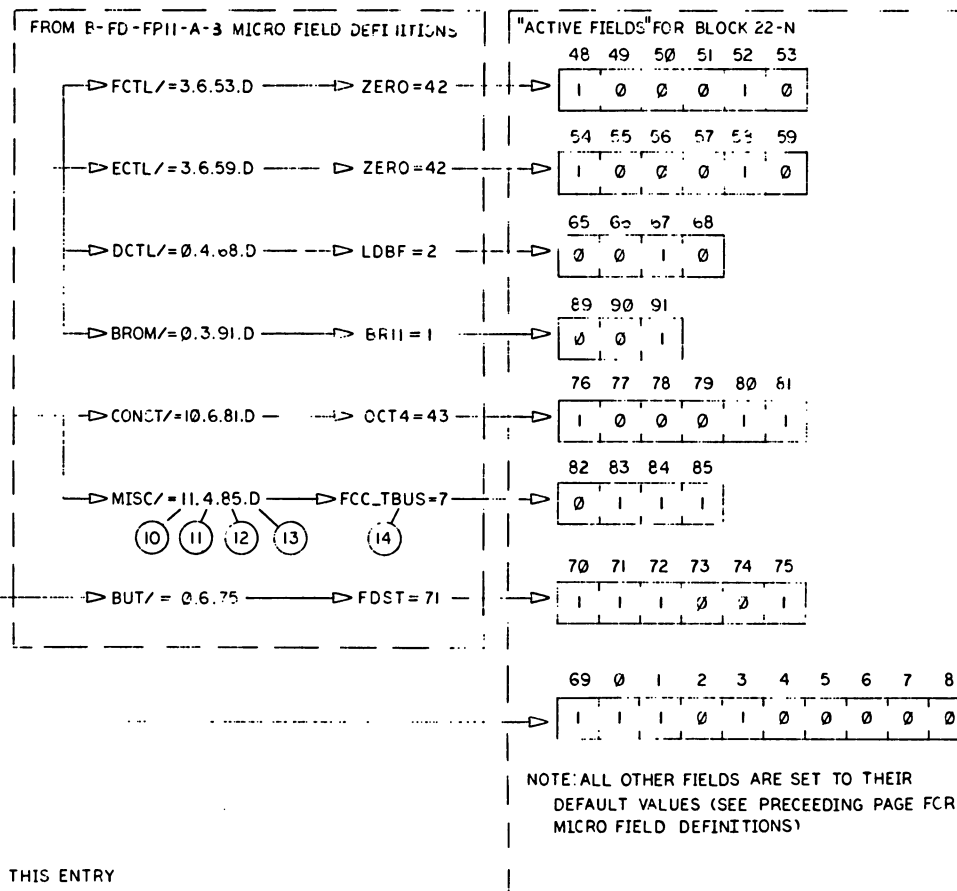
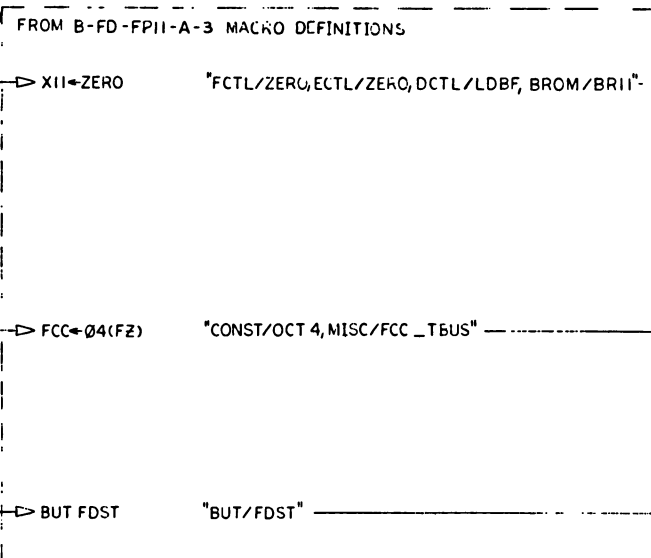
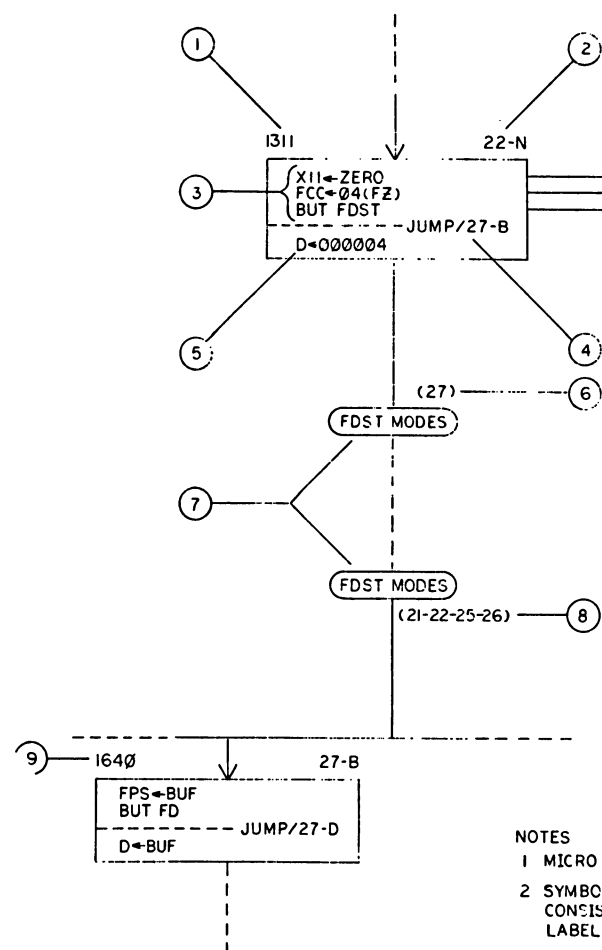
FPII-A CONTROL WORD (WITHIN M8267)



DRN. <i>[Signature]</i>	FIRST USED ON	<i>[Signature]</i>
CHK'D <i>[Signature]</i>	FPII-A	<i>[Signature]</i>
ENG. <i>[Signature]</i>	TITLE	FPII-A
PROJ. ENG. <i>[Signature]</i>	FLOW DIAGRAMS	
PROD. <i>[Signature]</i>		
NEXT HIGHER ASSY.		
B-DD-FPII-A	SIZE CODE	NUMBER
SCALE	D	FPII-A-2
SHEET 1 OF 40	DIST.	

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KEY TO MICRO FLOW SYMBOLOGY



NOTES

- 1 MICRO ADDRESS OF CURRENT WORD.
- 2 SYMBOLIC TAG OF CURRENT WORD CONSISTS OF PAGE NUMBER AND BLOCK LABEL (PAGE-BLOCK)
- 3 MICRO OPERATIONS WHICH TAKE PLACE DURING THIS STATE. THE FIELDS WHICH ARE INVOLVED IN CARRYING OUT THESE OPERATIONS CAN BE DETERMINED USING:
FPII-A MACRO DEFINITIONS
FPII-A MICRO FIELD DEFINITIONS
- 4 27-B IS THE SYMBOLIC TAG OF THE NEXT MICRO WORD (TARGET) ASSUMING NO BRANCHING (DESTINATION MODE 0). THIS CAN BE USED TO DETERMINE THE NEXT ADDRESS FIELD OF THE CURRENT MICRO WORD.
- 5 "D" STANDS FOR DISPLAY. IN THIS CASE, 000004 WILL APPEAR ON THE CONSOLE DISPLAY IF OPERATING IN MAINTENANCE MODE.
- 6 INDICATES PAGE IN FLOWS WHERE THIS ENTRY POINT CAN BE FOUND.
- 7 EXIT AND ENTRY LABELS ARE USED TO INDICATE LOGICAL FLOW FROM PAGE TO PAGE
- 8 INDICATES PAGES IN FLOWS FROM WHICH ENTRY POINT IS CALLED.
- 9 THIS ADDRESS IS THE TARGET OF THE JUMP FIELD OF BLOCK 22-N
- 10 DEFAULT VALUE OF THIS FIELD
- 11 NUMBER OF BITS IN THIS FIELD
- 12 LOCATION OF RIGHT MOST BIT OF THIS FIELD WITHIN MICRO WORD.
- 13 INDICATES THAT THE DEFAULT IS TAKEN IF NOTHING ELSE IS SPECIFIED
- 14 OCTAL VALUE OF MICRO FIELD LITERAL

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER		REV.
FPII-A FLOWS		D	FD	FPII-A-2		
SCALE		SHEET 2 OF 40		DIST.		

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FPII-A TYPICAL REGISTER USAGE

17		<i>FPS</i>		
16			FCCR	
15			FEC	
14		ZERO	EFSRC	
13		ZERO	EAC	
12	FSRC			S E
11	AC			S E
10	E	FSRC (BECOMES SIGN)		S E
7				
6				
5	E	AC5		S E
4	E	AC4		S E
3	E	AC3		S E
2	E	AC2		S E
1	E	AC1		S E
0	E	AC0		S E

SECTOR3	SECTOR 2		SECTOR 1		SECTOR 0		SECTOR3
BYTE 6	BYTE 5	BYTE 4	BYTE 3	BYTE 2	BYTE 1	BYTE 0	BYTE 7
F - REG							E - REG
X - REG							

FPII-A TS BUS ASSIGNMENT

TS0		Y8
TS1		Y9
TS5	FT	Y61
TS6		Y62
TS8	FIC	
TS9	FIV	
TS10	FIU	
TS11	FIUV	
TS14	FID	

FPII-A MPC BUTOFF BITS

MPC	I134	FPX TS BUT	FPX CONDITIONS	FPX BUT OPI	FPX BUT OP2
0	IR09	—	—	OPI0	OP20
1	ZBIT	TS0	TSI4	OPI1	OP21
2	C05	TSI	XOUT	OPI2	OP22
3	SPI5	TS8	Q8-Q40	OPI3	OP23
4	BX00	TS9	XZBT	—	—
5	BX01	TSI0	XNBT	—	—
6	NBIT	TSI1	BUSRQ	—	—
7	COUT	TS5	EZBT	—	—
8		TS6	ENBT	—	—

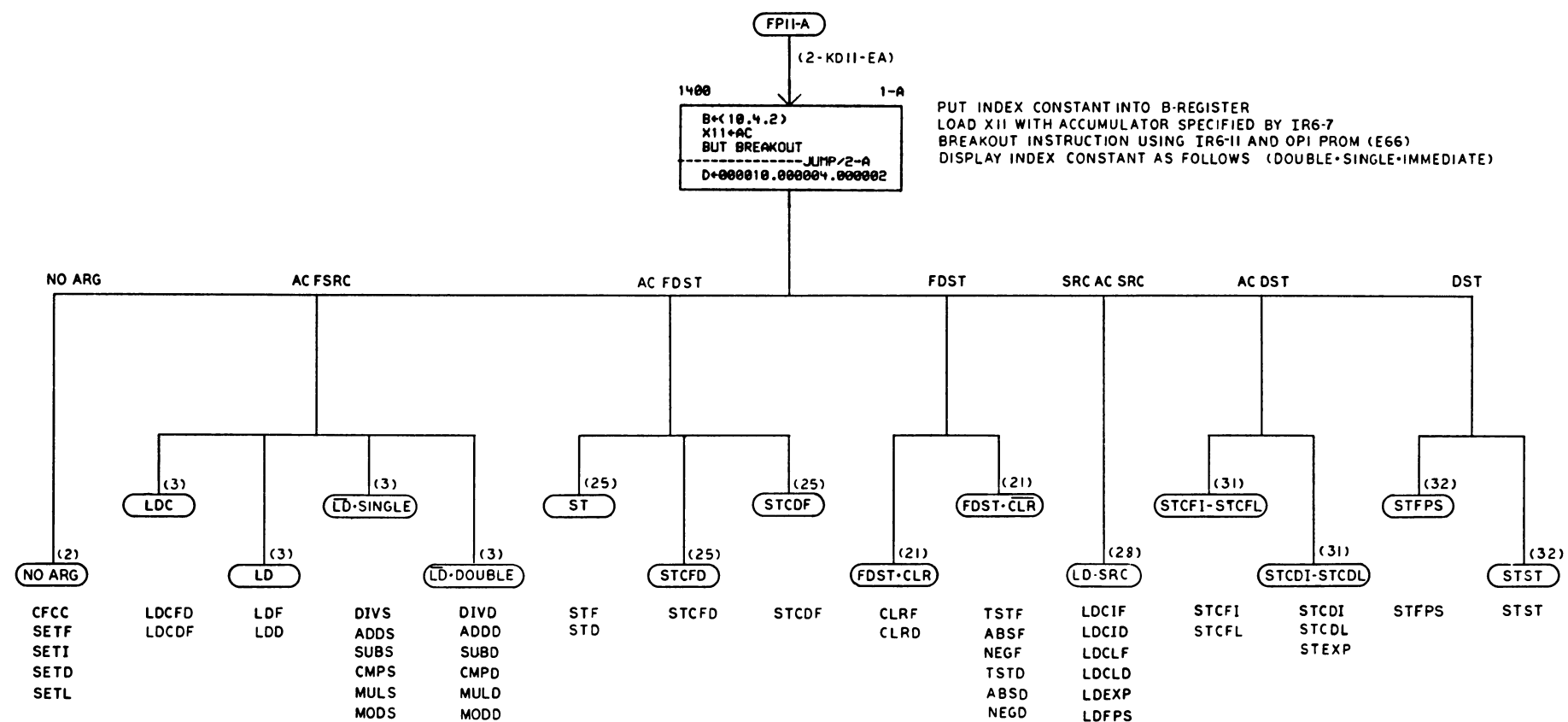
FLOATING POINT STATUS REGISTER

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
FER	FID	X	X	FIUV	FIU	FIV	FIC	FD	FL	FT	X	FN	FZ	FV	FC

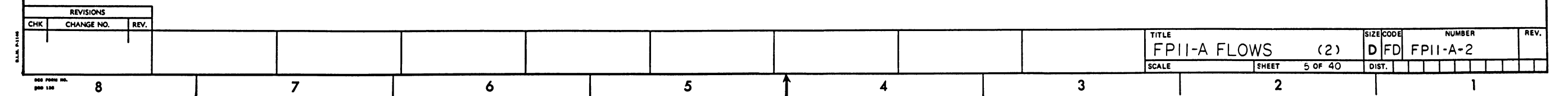
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE FPII-A FLOWS		SIZE D	CODE FD	NUMBER FPII-A-2				REV
SCALE + + +	SHEET 3 OF 40	DIST.						

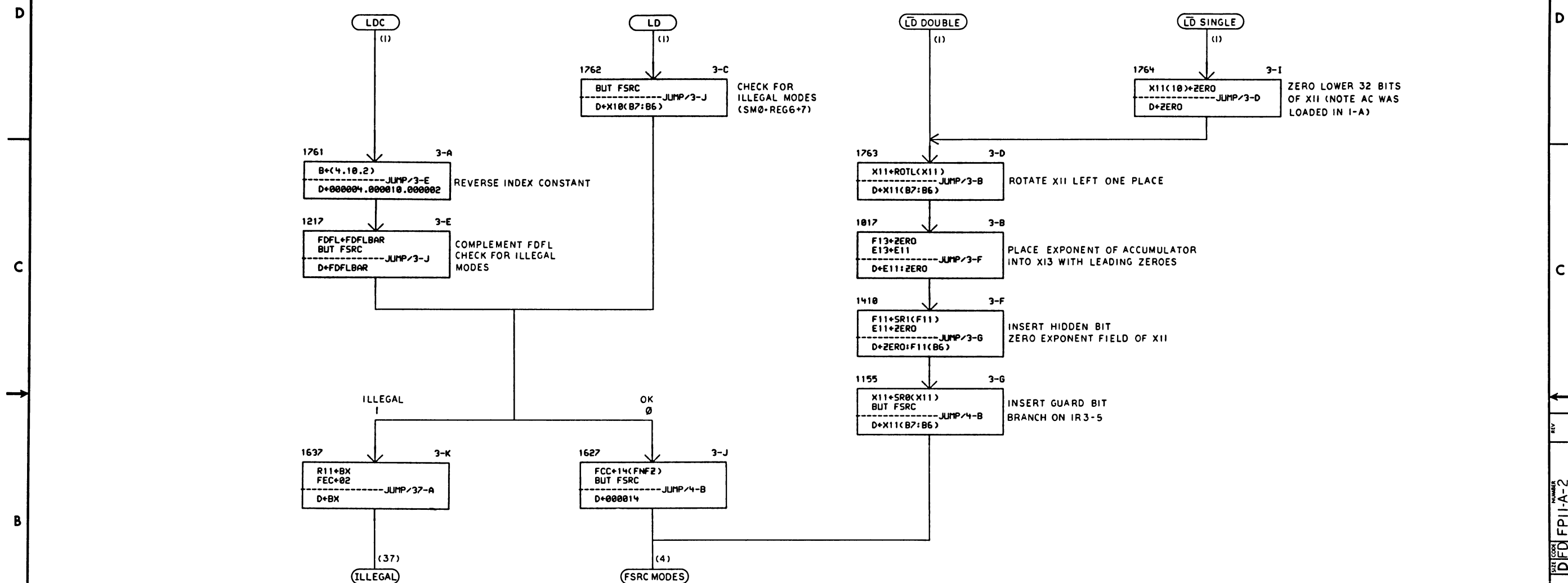
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REVISIONS		
CHK	CHANGE NO.	REV.

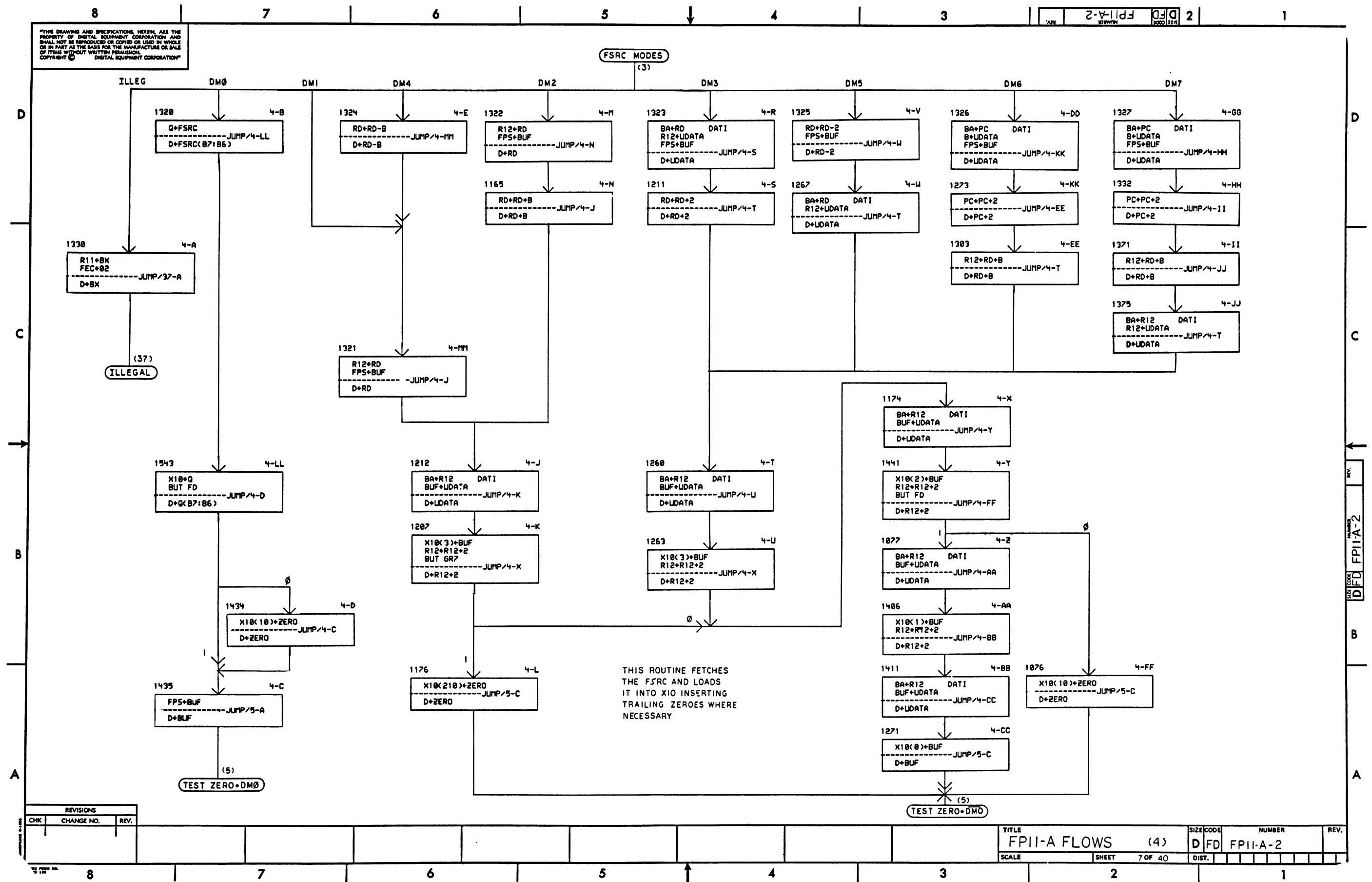


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REVISIONS		
CHK	CHANGE NO.	REV.

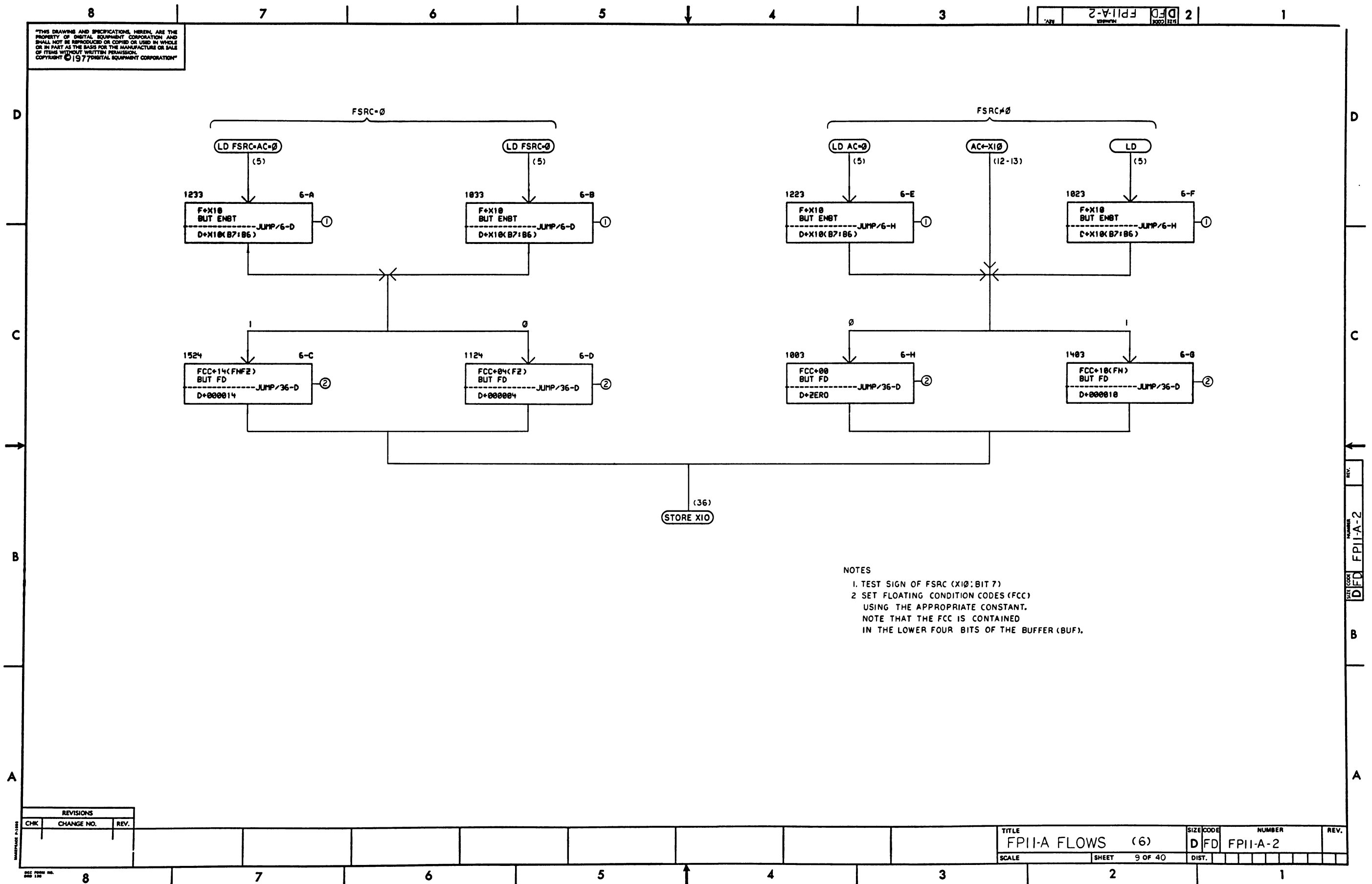
TITLE FPII-A FLOWS (3)				SIZE CODE D FD		NUMBER FPII-A-2				REV.	
SCALE		SHEET 6 OF 40		DIST.							



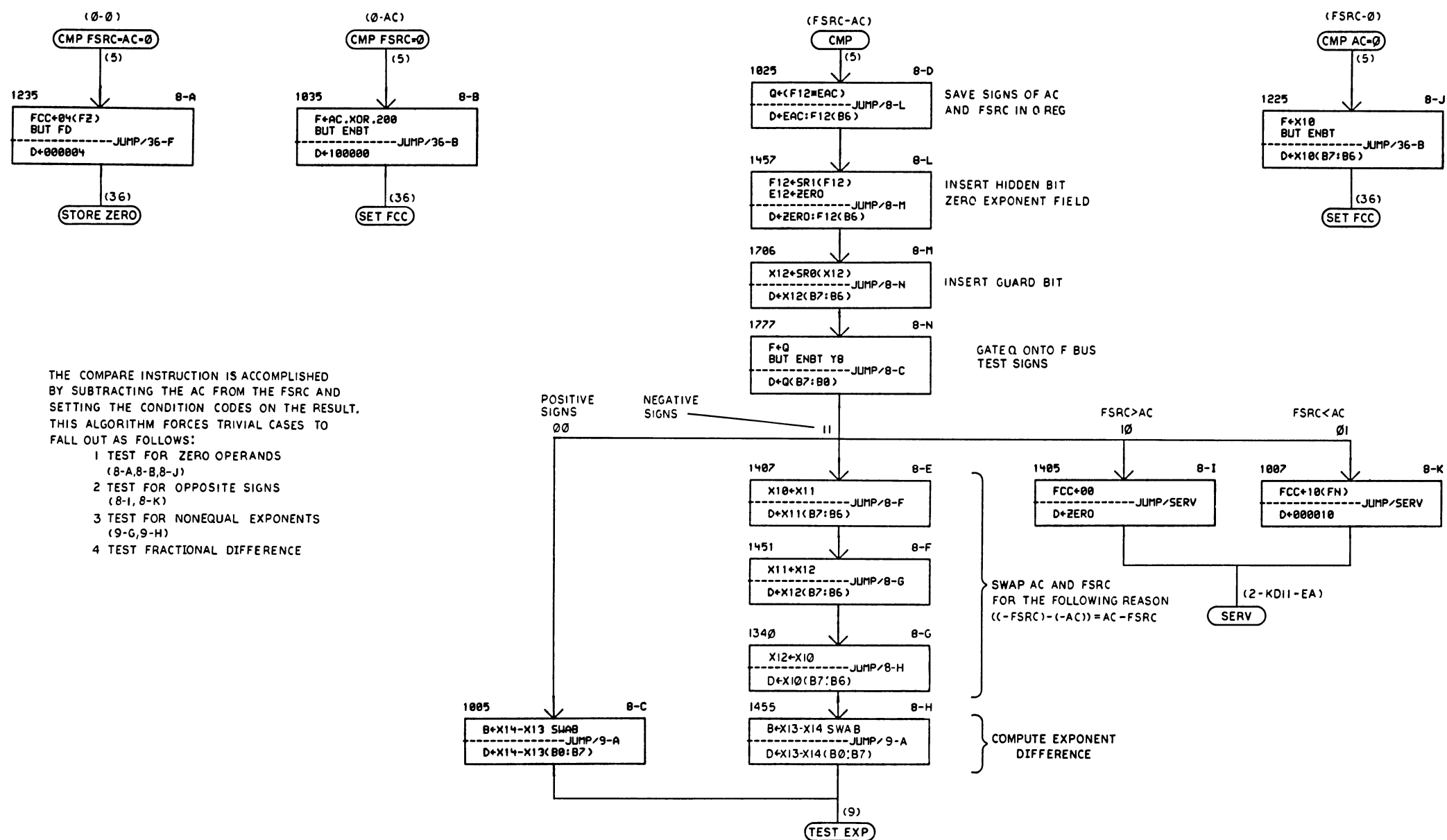
A



TITLE FPII-A FLOWS (5)		SIZE D	CODE FD	NUMBER FPII-A-2			REV
SCALE	SHEET 8 OF 40	DIST.					



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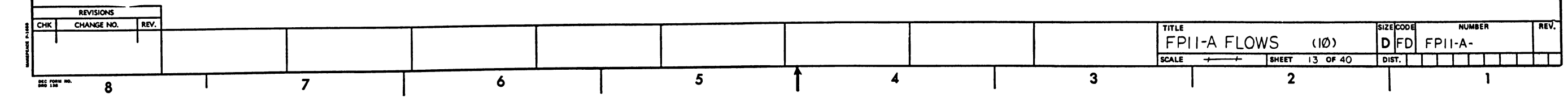
THE COMPARE INSTRUCTION IS ACCOMPLISHED BY SUBTRACTING THE AC FROM THE FSRC AND SETTING THE CONDITION CODES ON THE RESULT. THIS ALGORITHM FORCES TRIVIAL CASES TO FALL OUT AS FOLLOWS:

- 1 TEST FOR ZERO OPERANDS
(8-A,8-B,8-J)
- 2 TEST FOR OPPOSITE SIGNS
(8-I,8-K)
- 3 TEST FOR NONEQUAL EXPONENTS
(9-G,9-H)
- 4 TEST FRACTIONAL DIFFERENCE

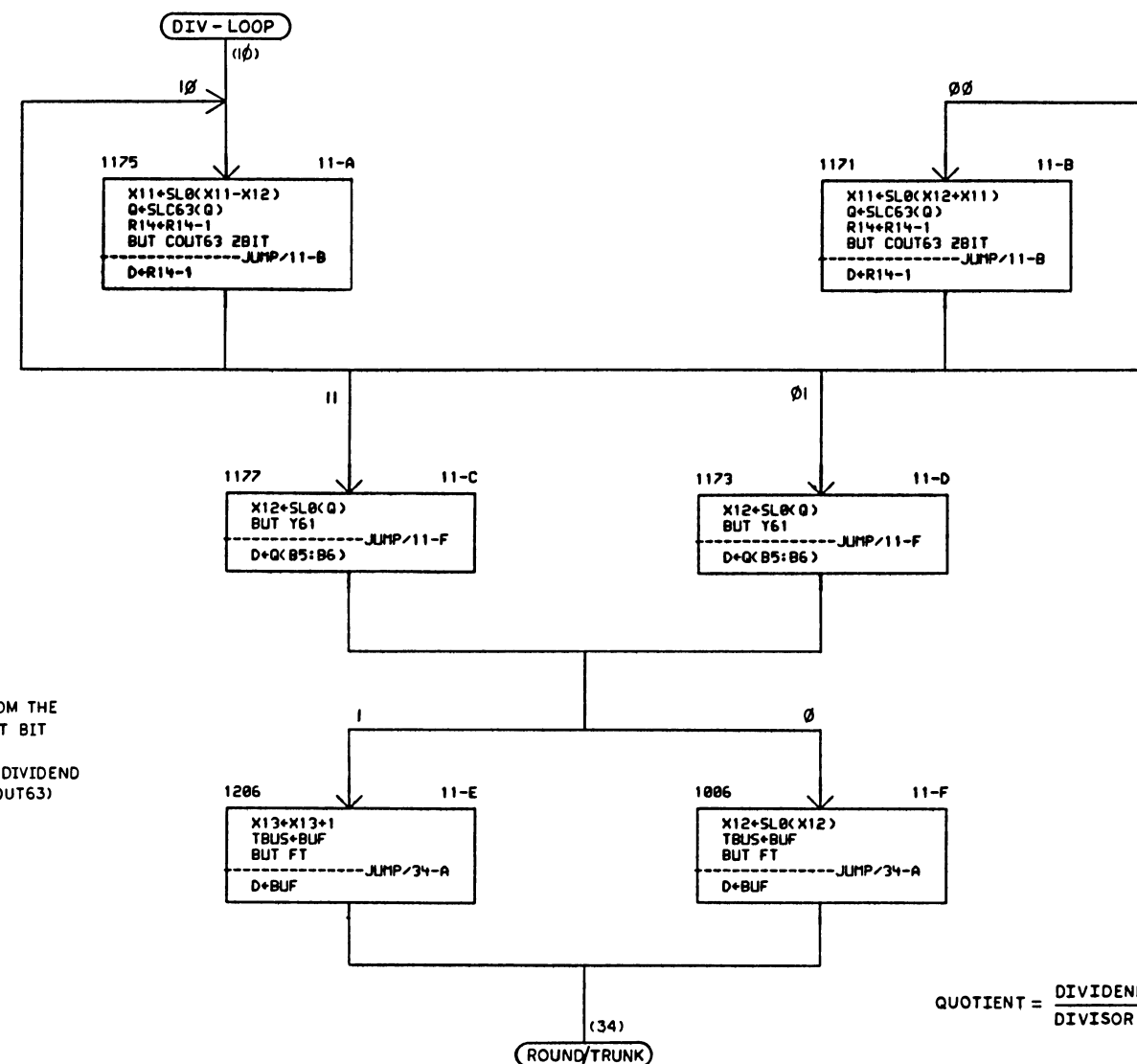
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE FPII-A FLOWS (8)		SIZE D	CODE FD	NUMBER FPII-A-				REV.
SCALE	SHEET 11 OF 40	DIST.						





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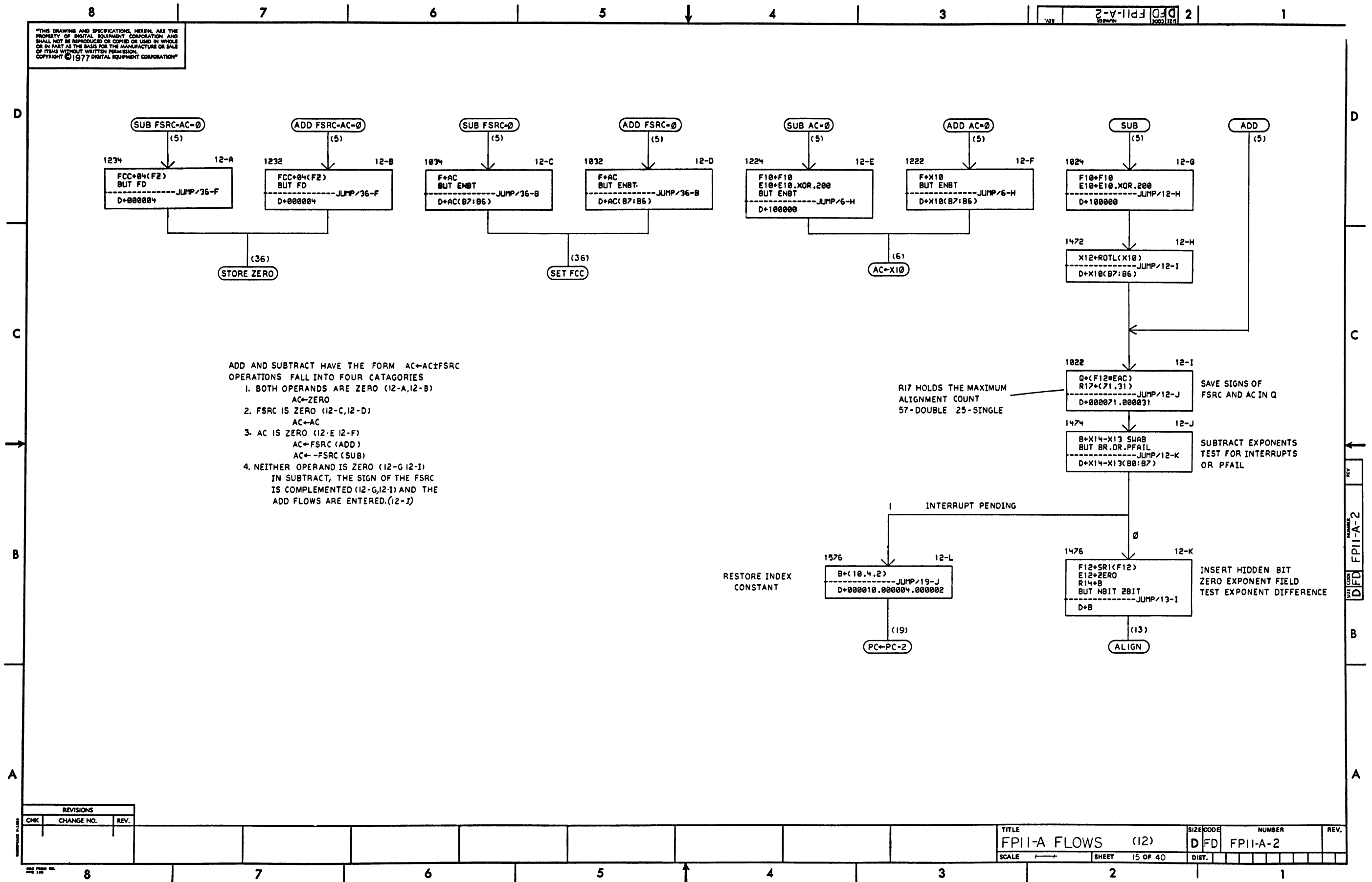
THIS IS A NONRESTORING
DIVISION ALGORITHM IN WHICH:

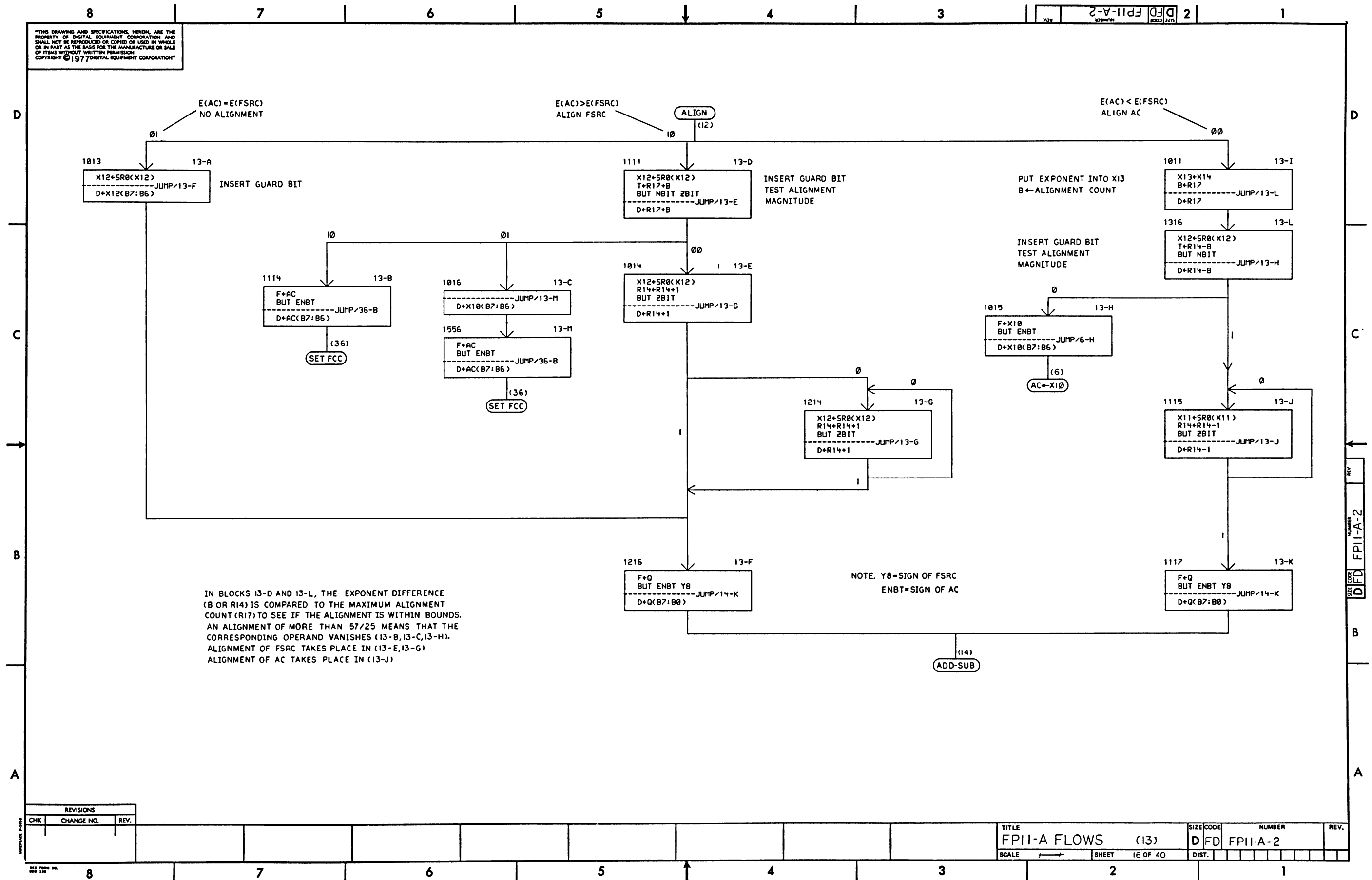
1. THE DIVISOR IS SUBTRACTED FROM THE
DIVIDEND IF THE LAST QUOTIENT BIT
(COUT63) WAS ONE.
2. THE DIVISOR IS ADDED TO THE DIVIDEND
IF THE LAST QUOTIENT BIT (COUT63)
WAS ZERO.

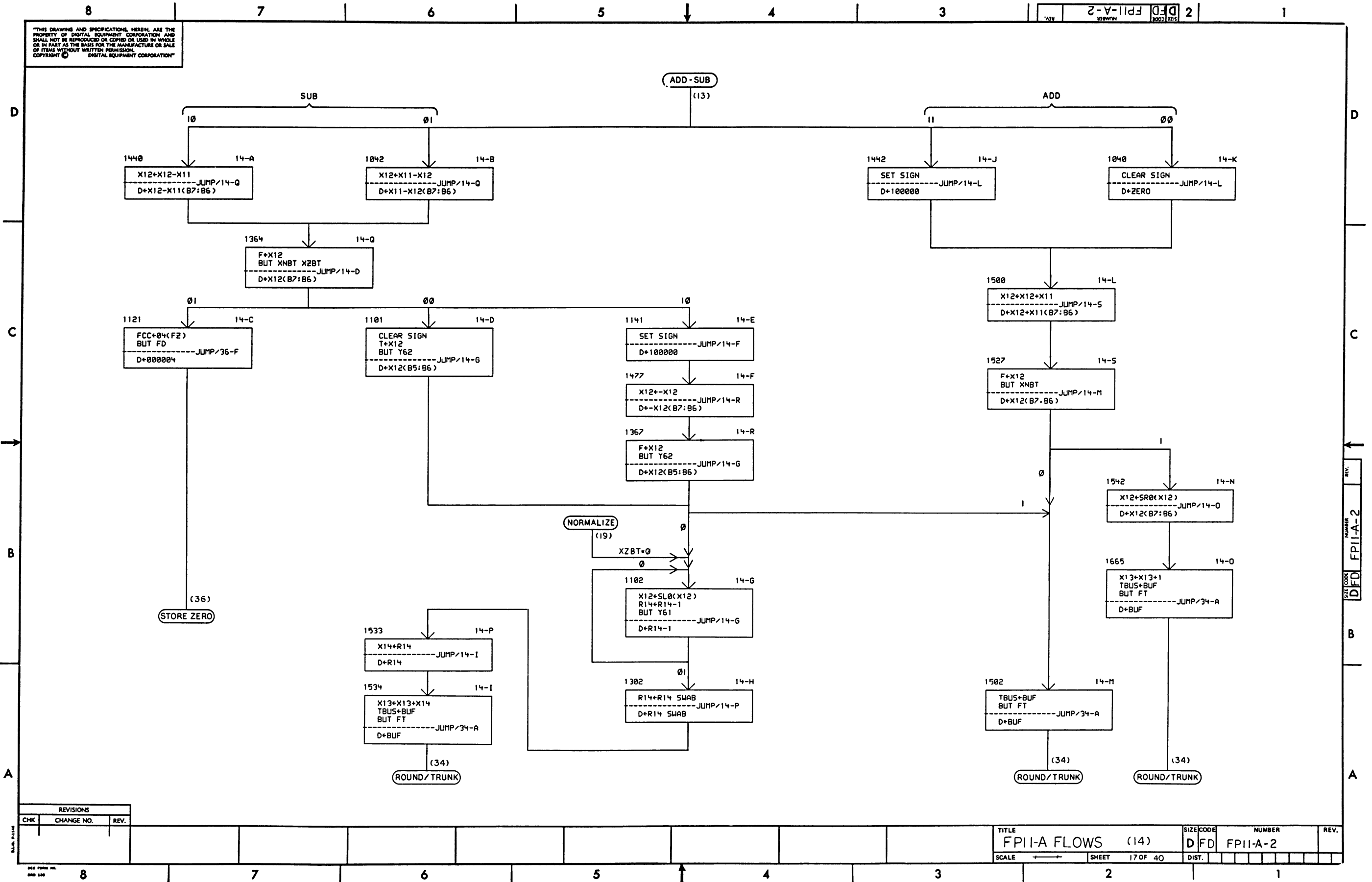
$$\text{QUOTIENT} = \frac{\text{DIVIDEND}}{\text{DIVISOR}} = \frac{\text{AC}}{\text{FSRC}} = \frac{\text{XII}}{\text{XII}}$$

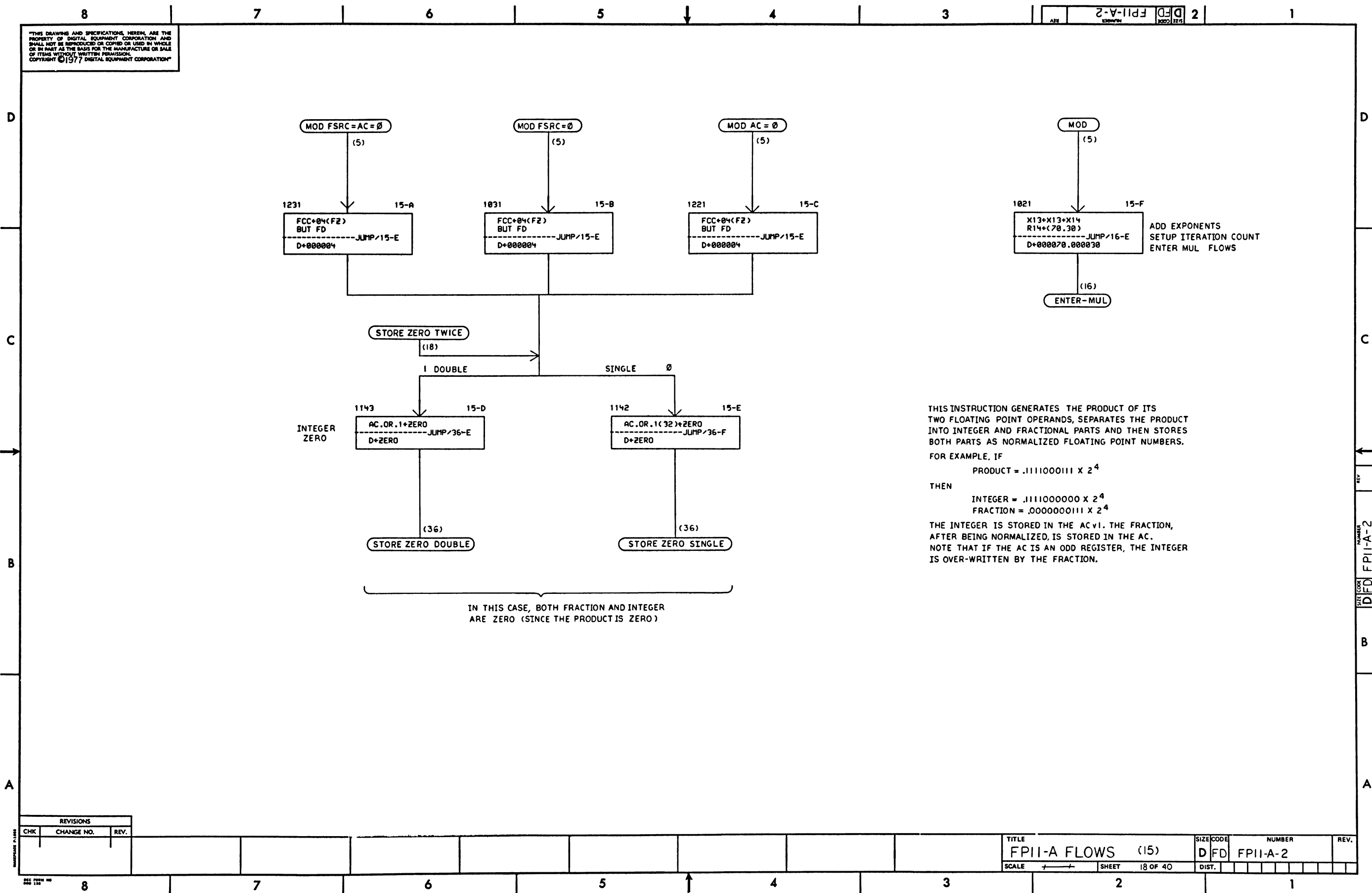
REVISIONS		
CHK	CHANGE NO.	REV.

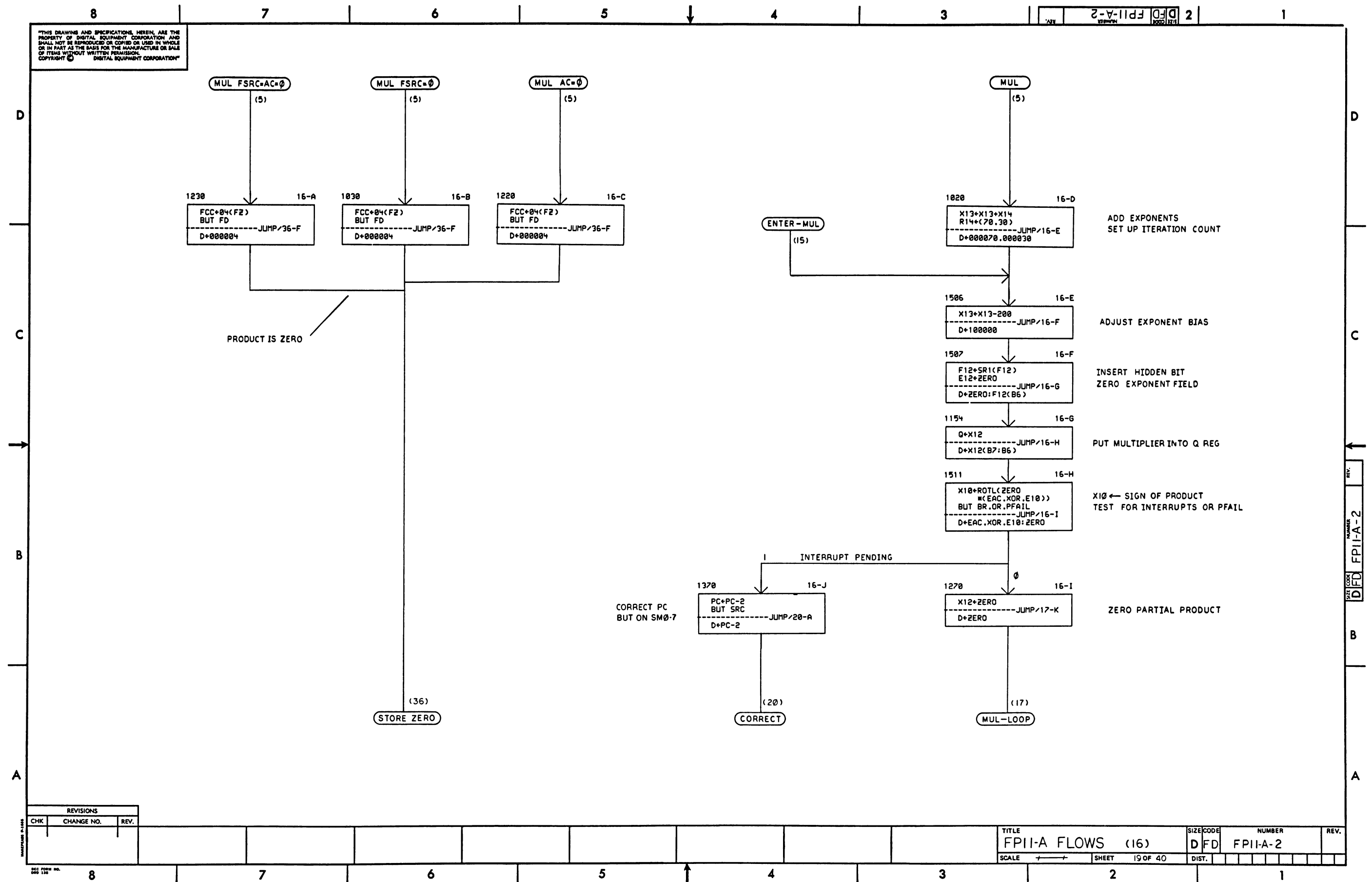
TITLE		SIZE		CODE	NUMBER		REV
FPII-A FLOWS (11)		D	FD	FPII-A-			
SCALE	$\frac{1}{4}'' = 1'$	SHEET	14 OF 40		DIST.		



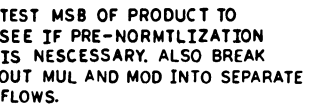




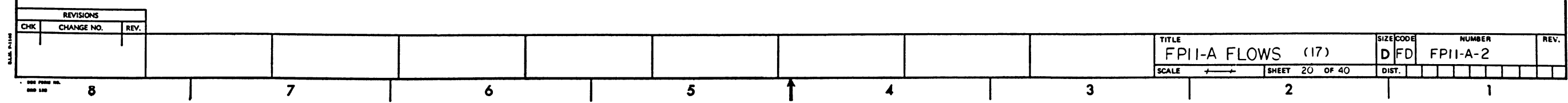


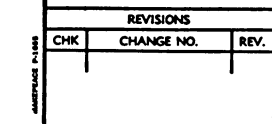


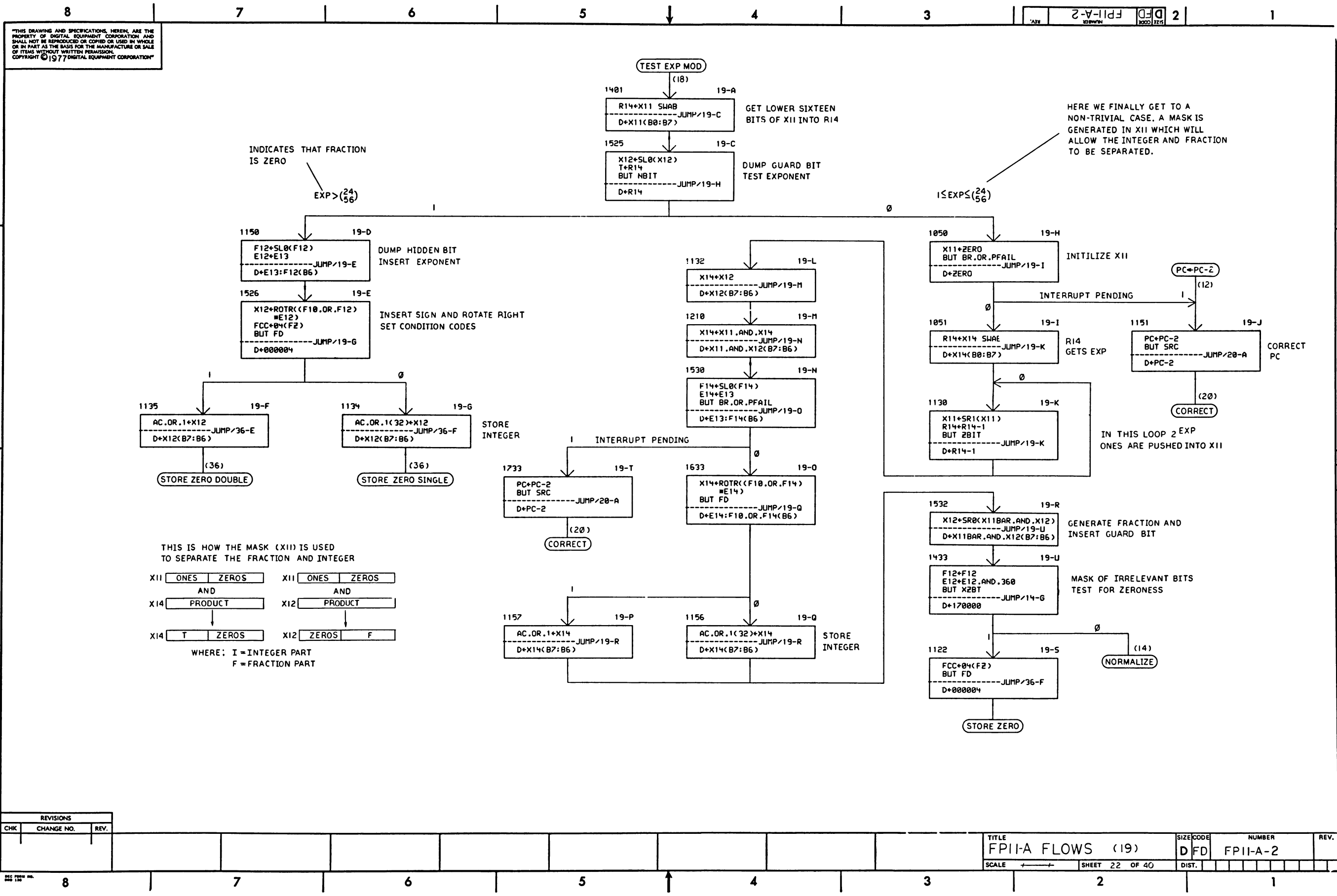
ALL SHIFTING IS DONE
WHEN WE DROP OUT OF
THIS LOOP LEFT GARD
BIT IS ZERO

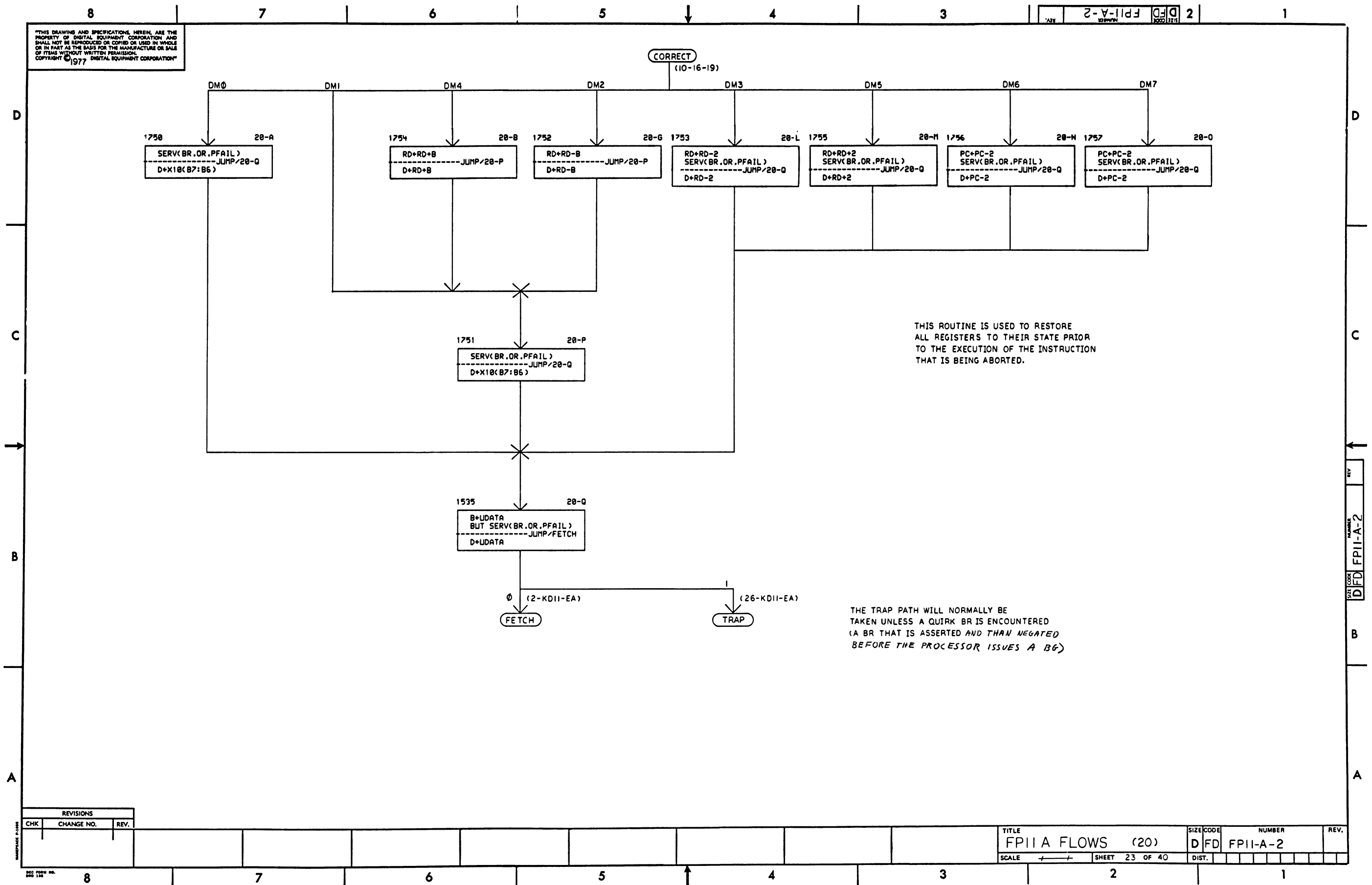


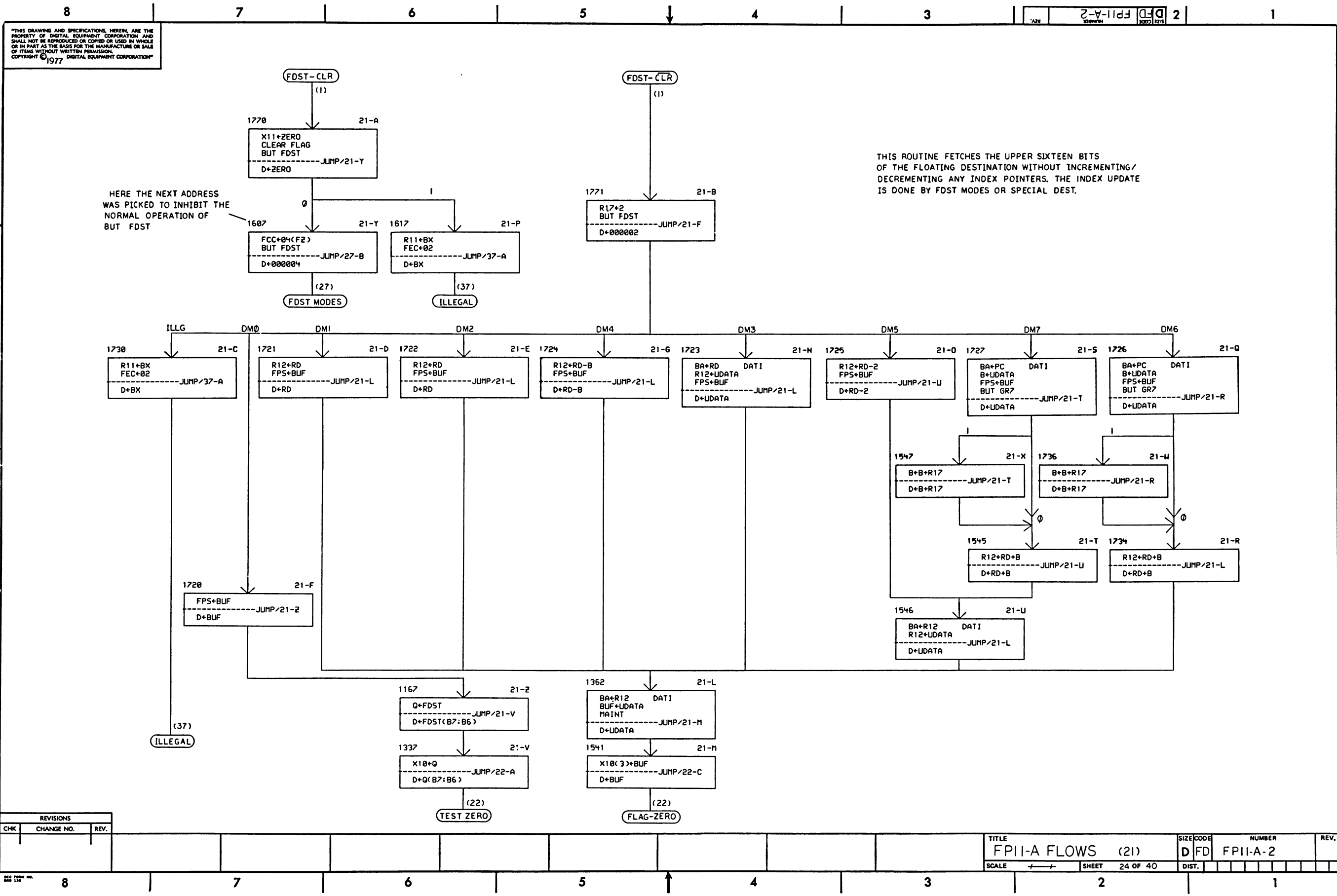
INCREMENT EXPONENT





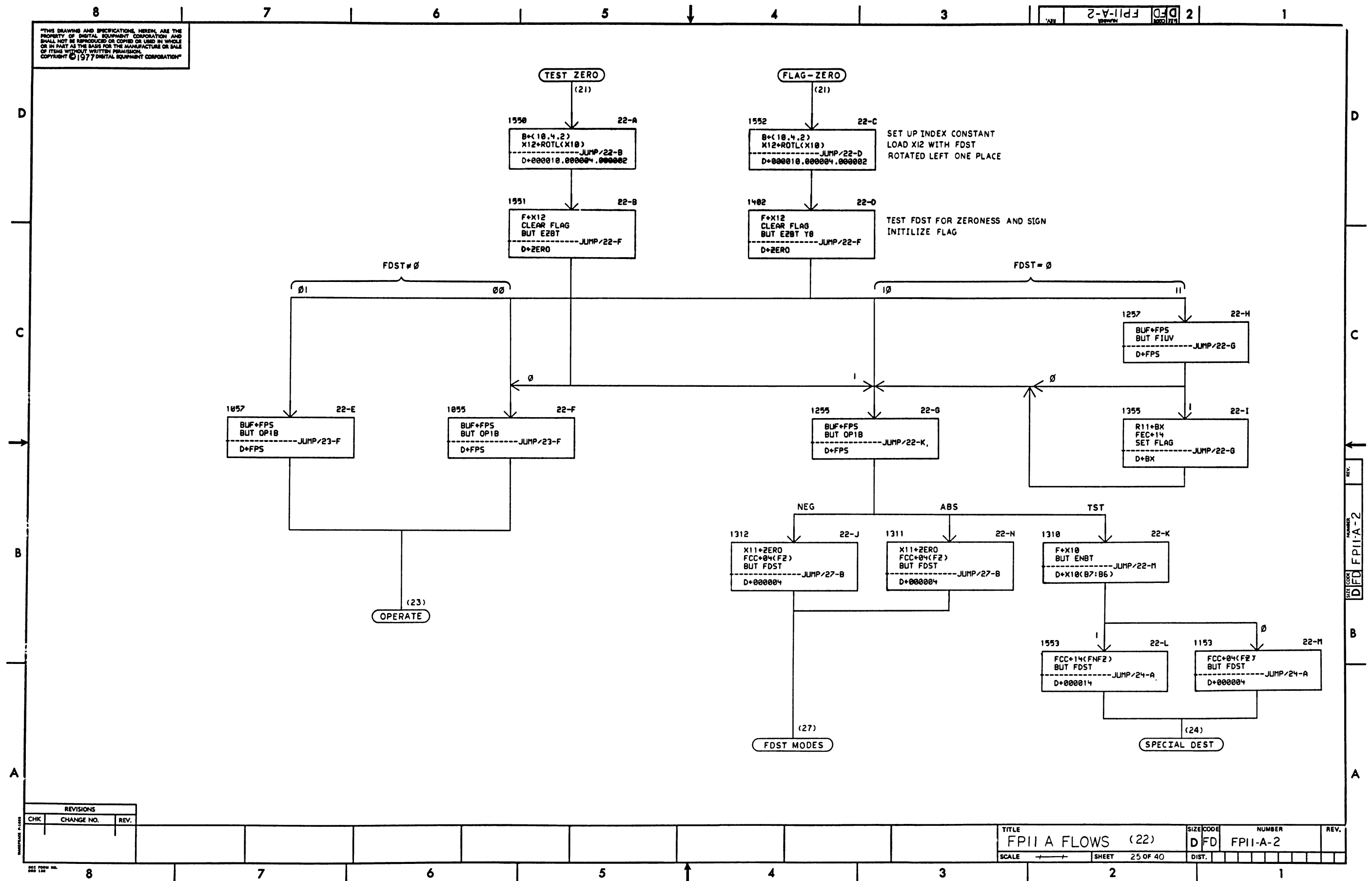




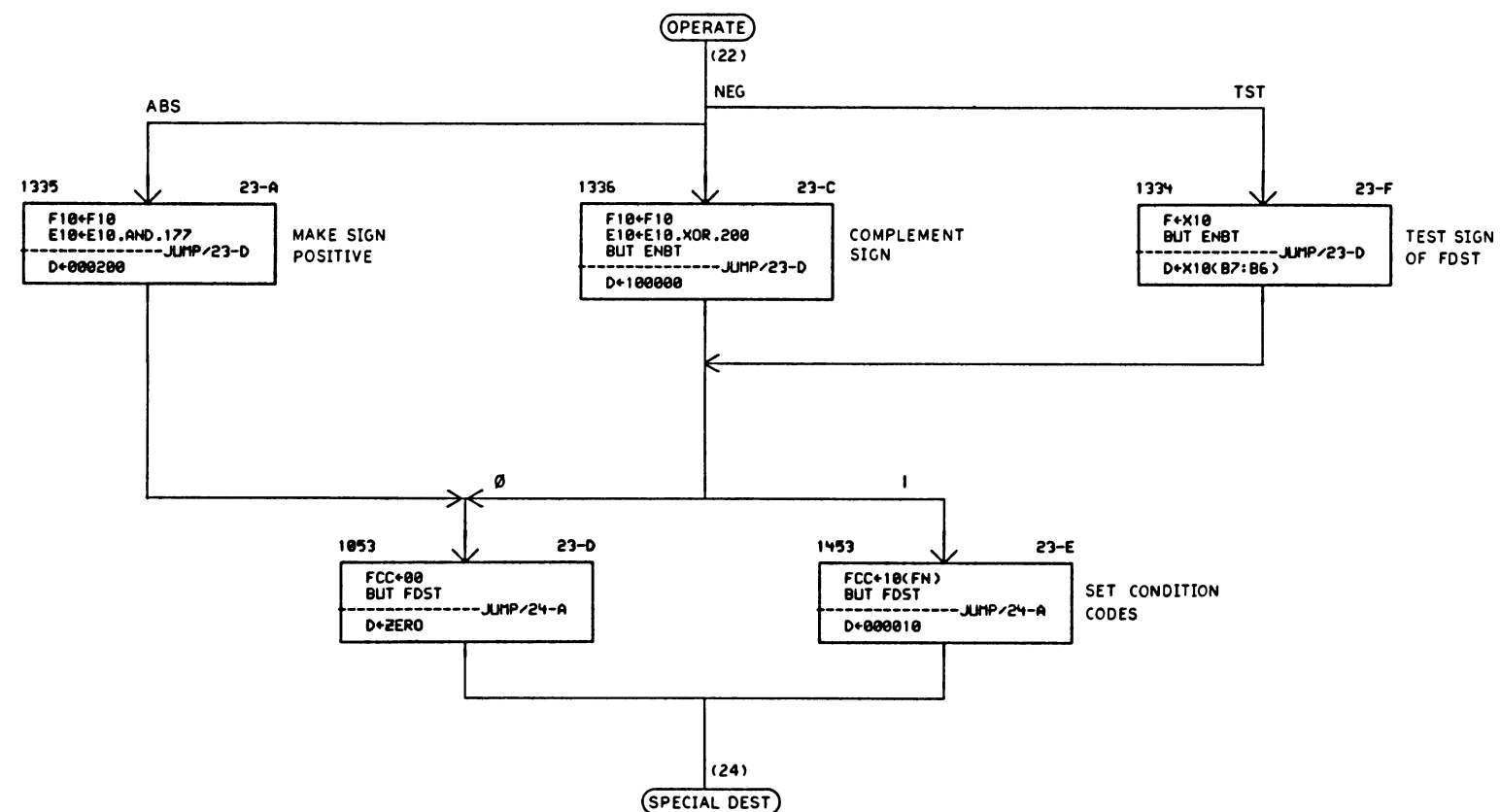


REVISIONS		
CHK	CHANGE NO.	REV.

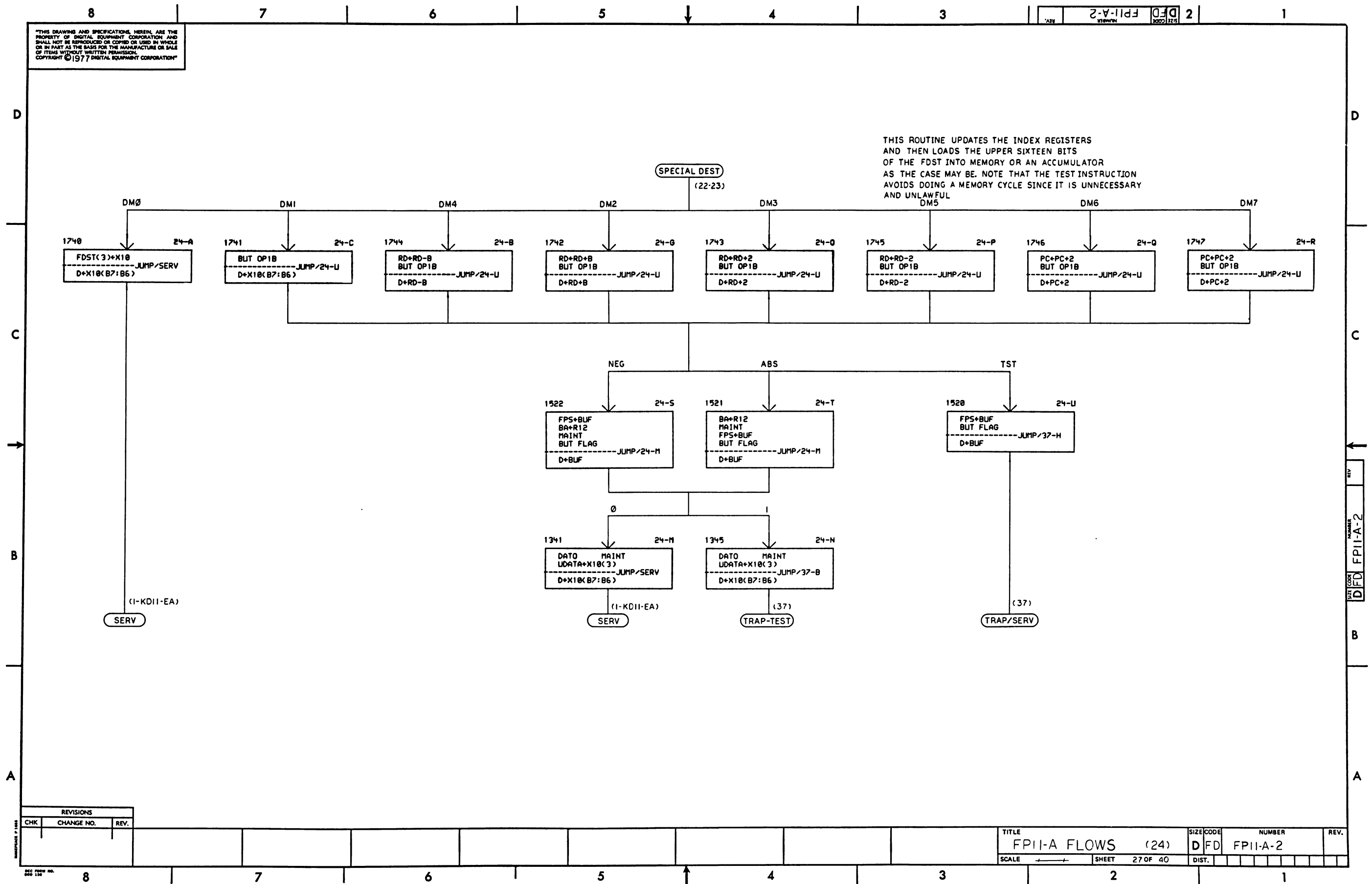
TITLE		SIZE	CODE	NUMBER		REV.
FPII-A FLOWS (21)		D	FD	FPII-A-2		
SCALE		SHEET		DIST.		
		24 OF 40				

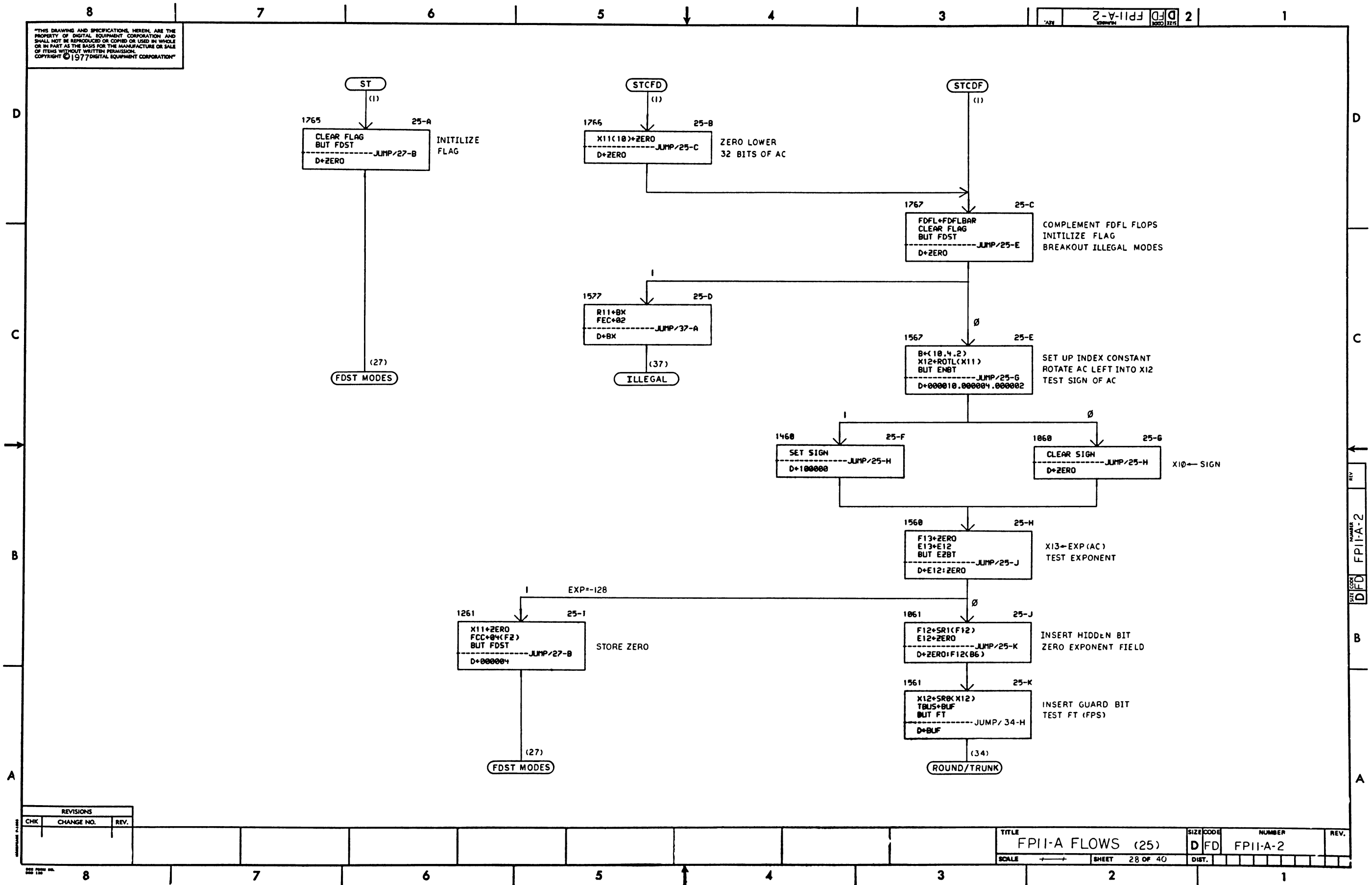


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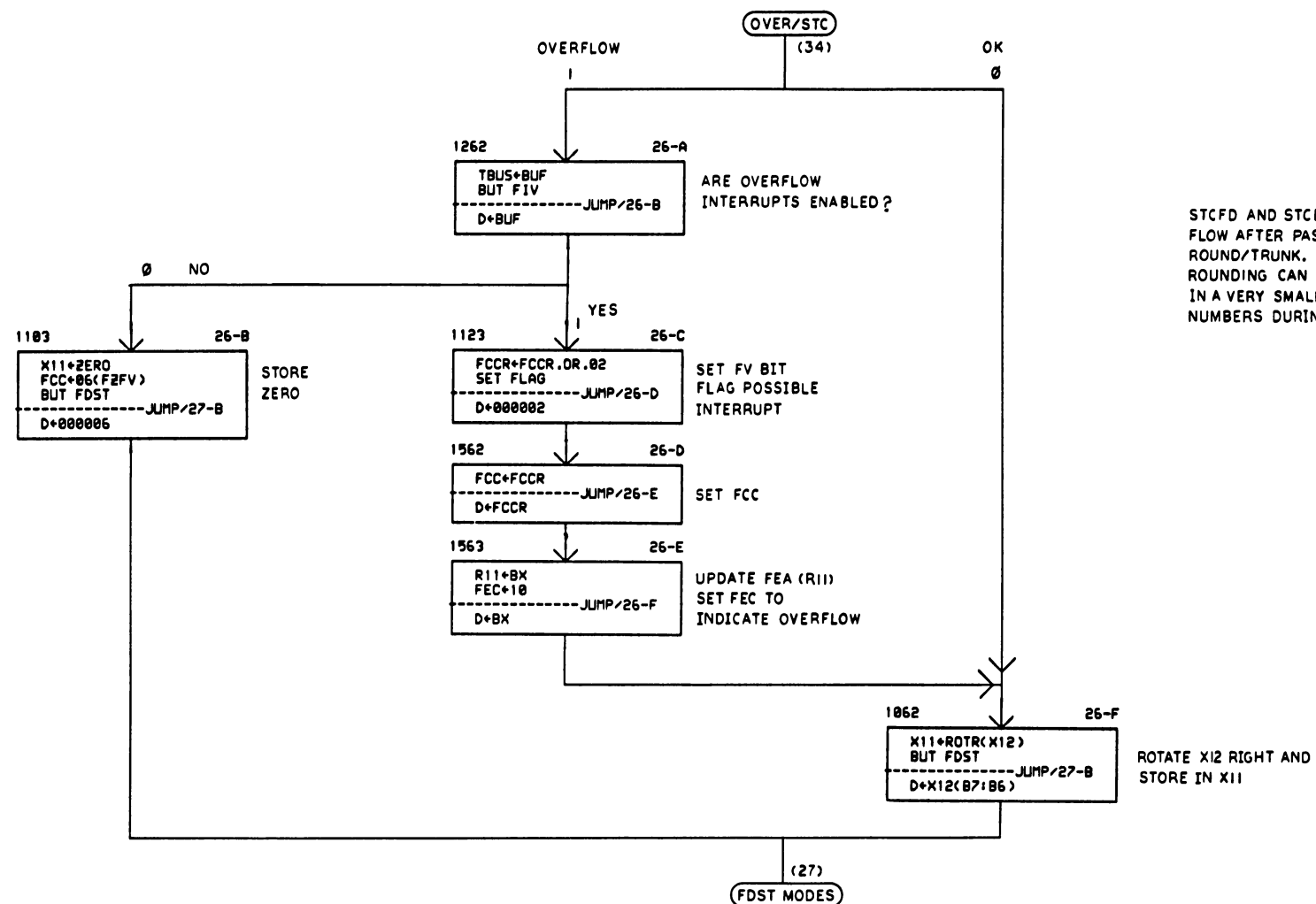


REVISIONS		
CHK	CHANGE NO.	REV.



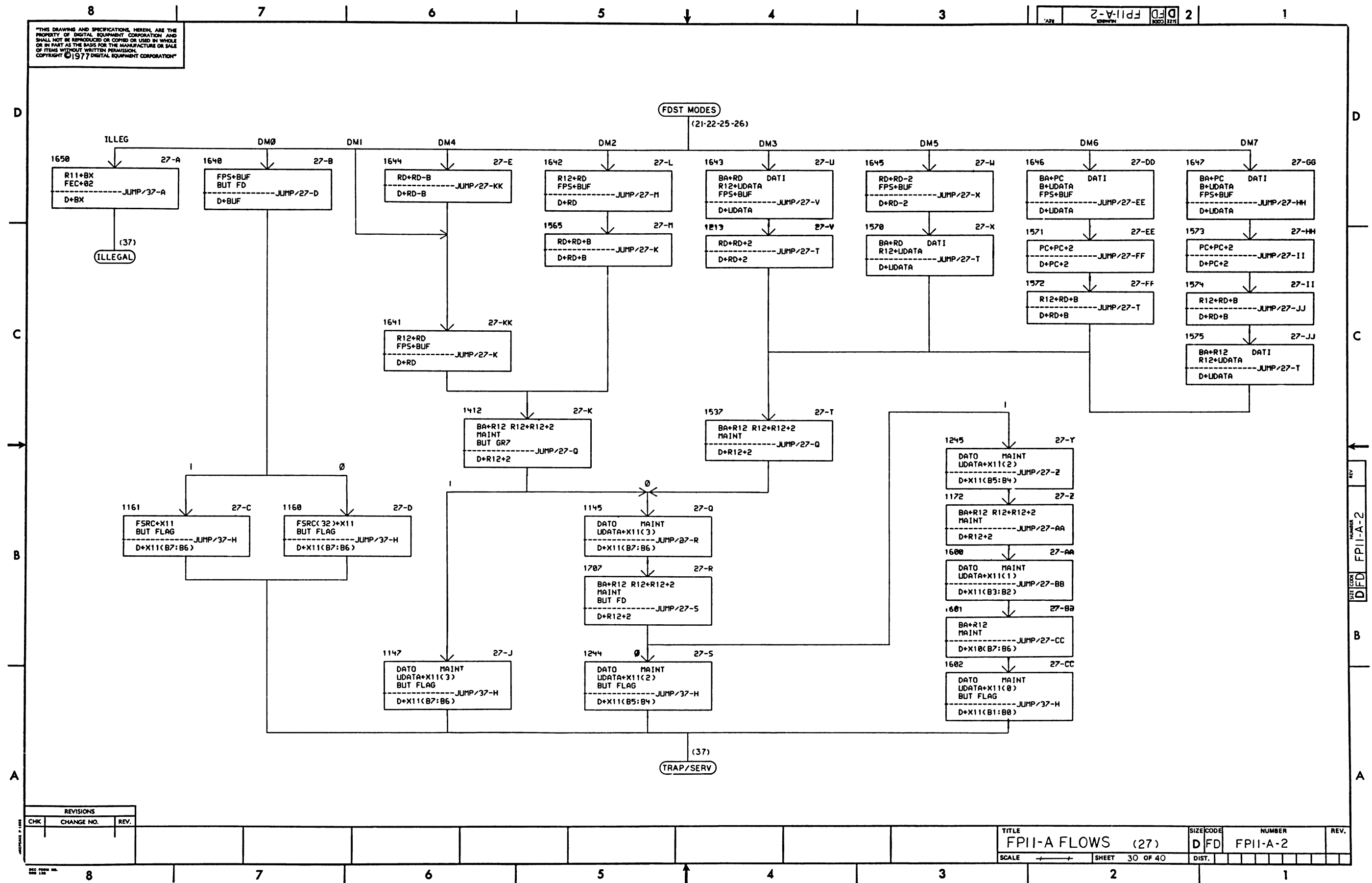


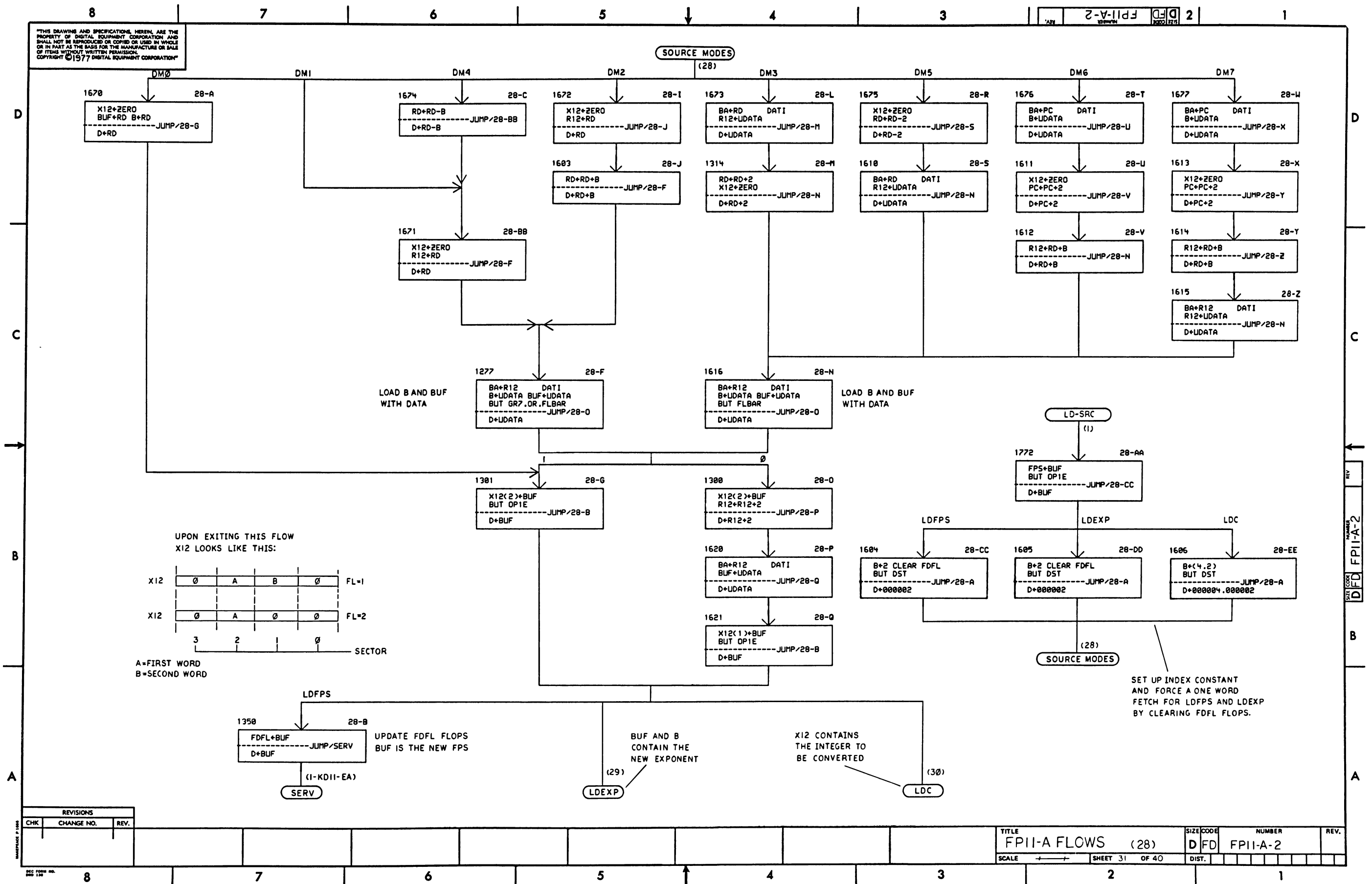
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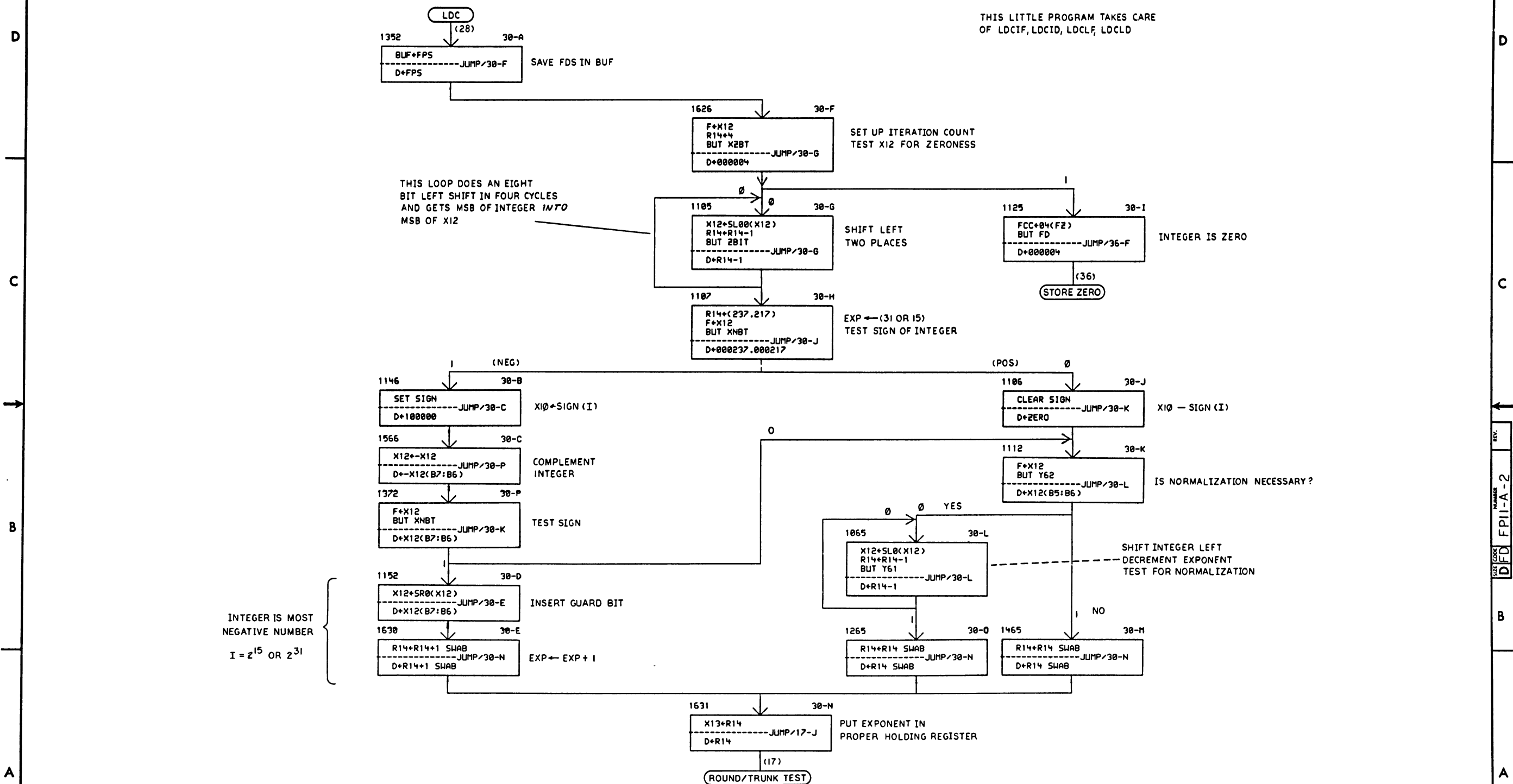


STCFD AND STCDF ENTER THIS
FLOW AFTER PASSING THROUGH
ROUND/TRUNK. THE PROCESS OF
ROUNDING CAN CAUSE AN OVERFLOW
IN A VERY SMALL CLASS OF VERY LARGE
NUMBERS DURING STCDF (PROBABILITY = $\frac{1}{256}$)

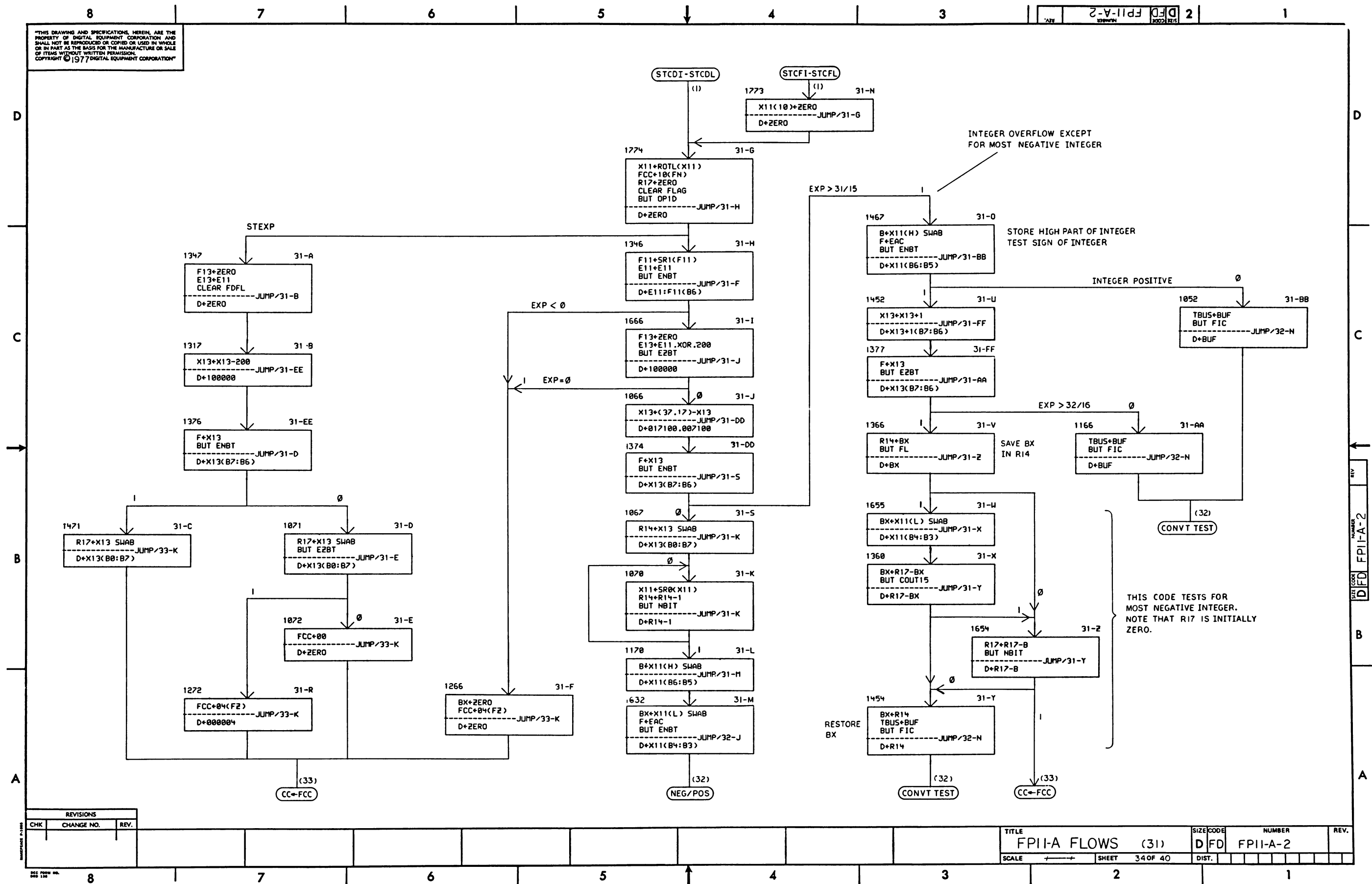
REVISIONS		
CHK	CHANGE NO.	REV.





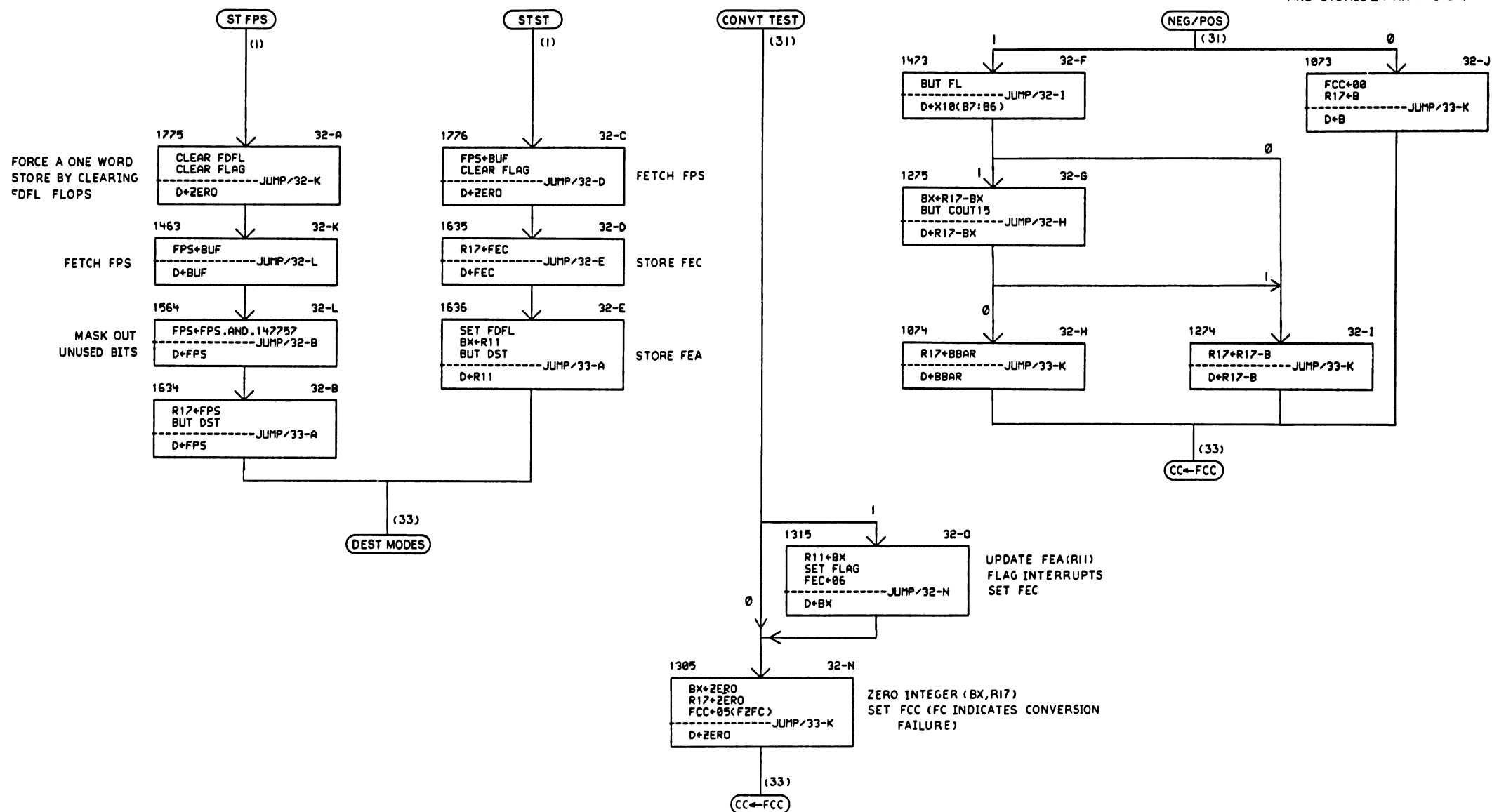


REVISIONS		
CHK	CHANGE NO.	REV.

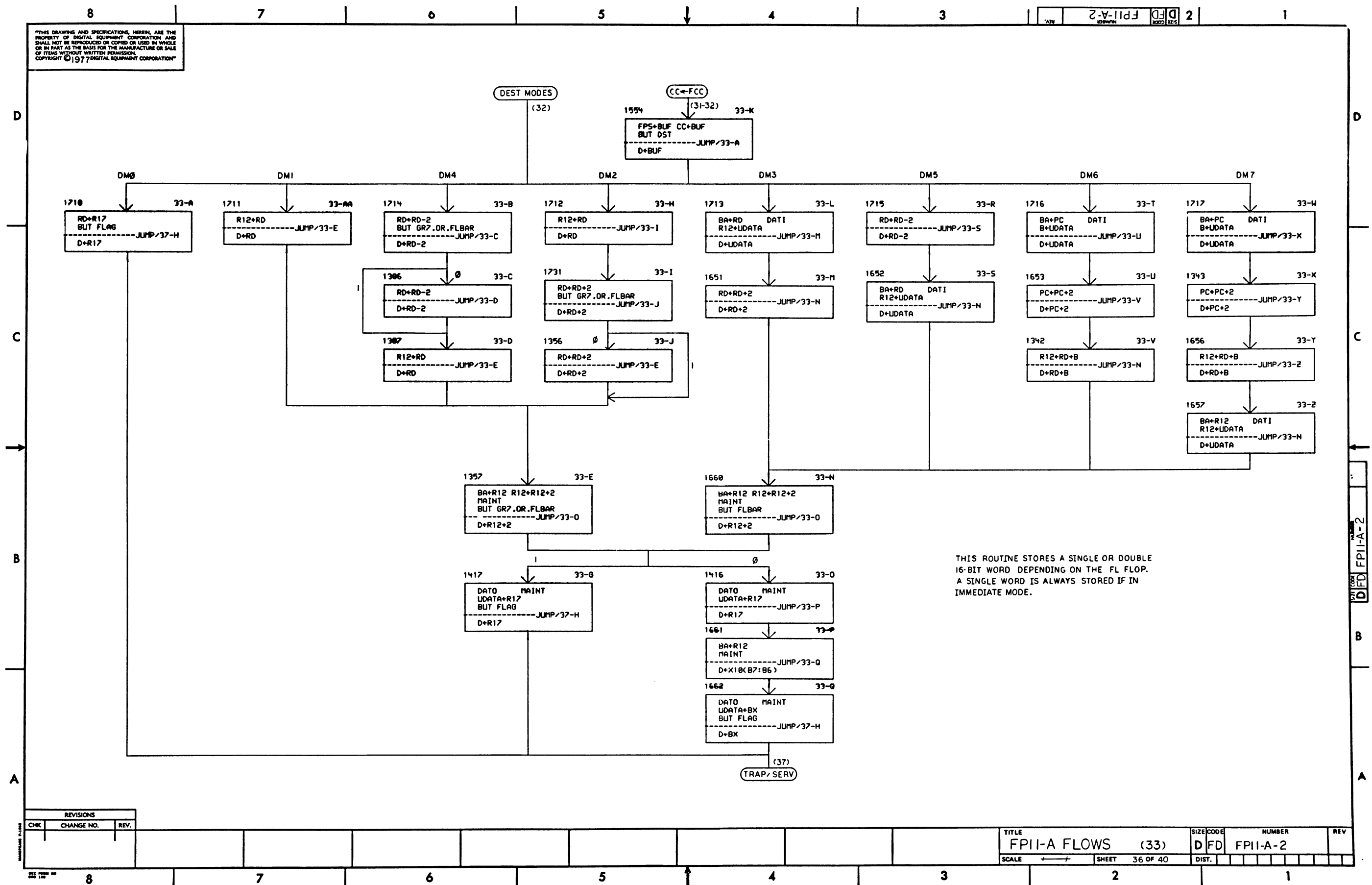


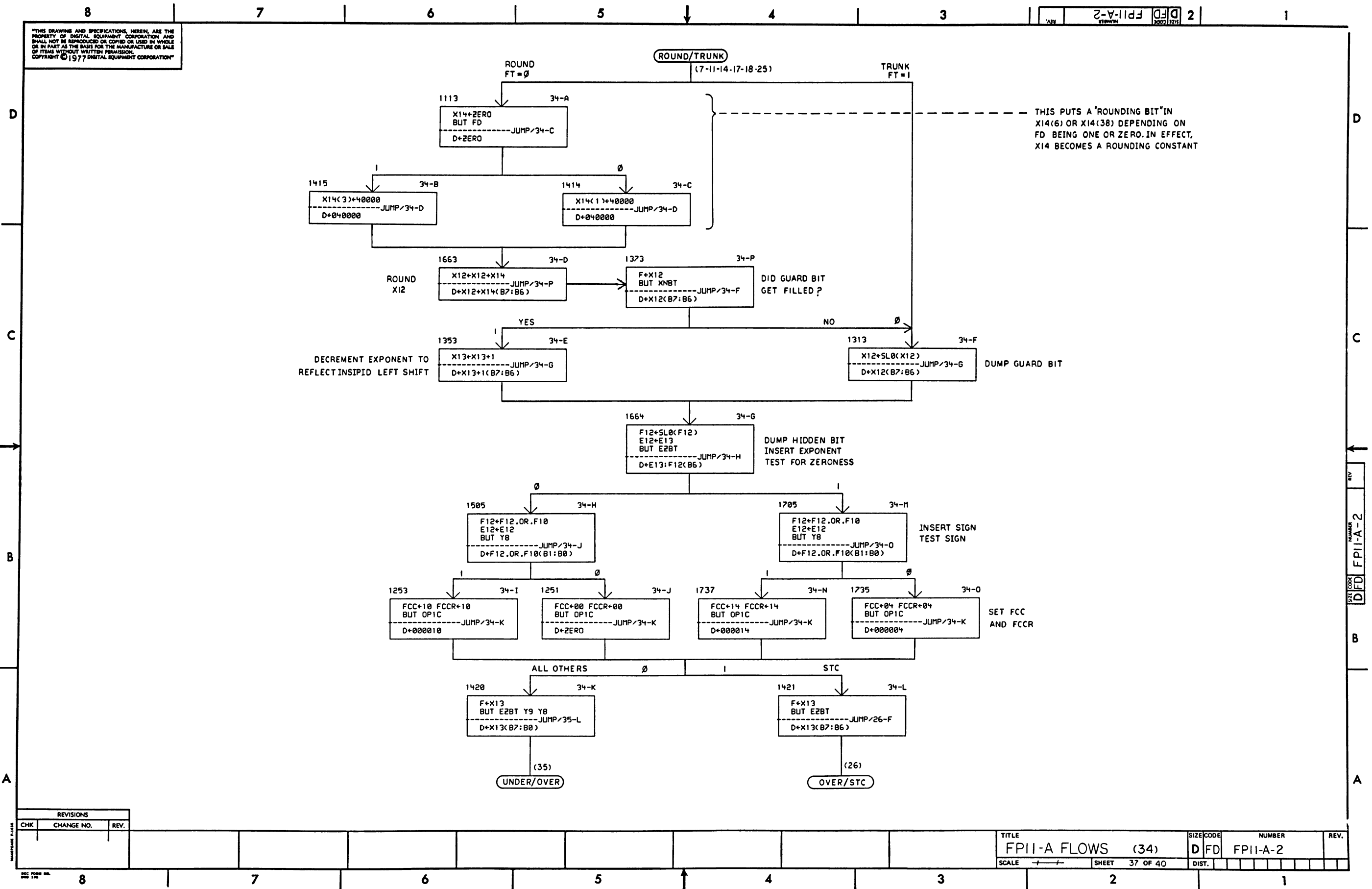
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UPON ENTERING THIS ROUTINE, THE INTEGER
IS IN B AND BX, R17 CONTAINS ZERO.
THE INTEGER IS COMPLEMENTED (IF NECESSARY)
AND STORED IN R17 AND BX.




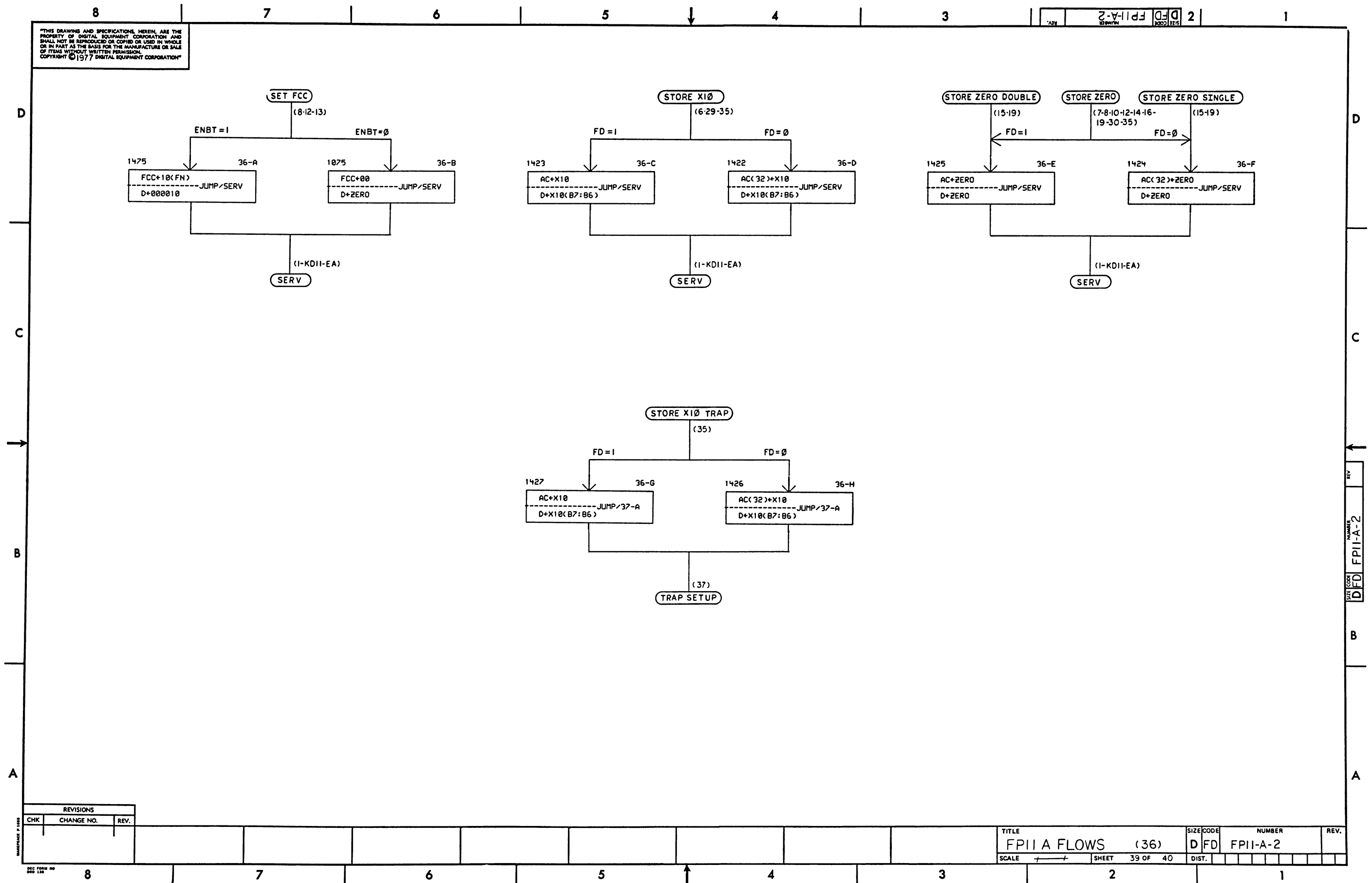
REVISIONS		
CHK	CHANGE NO.	REV.

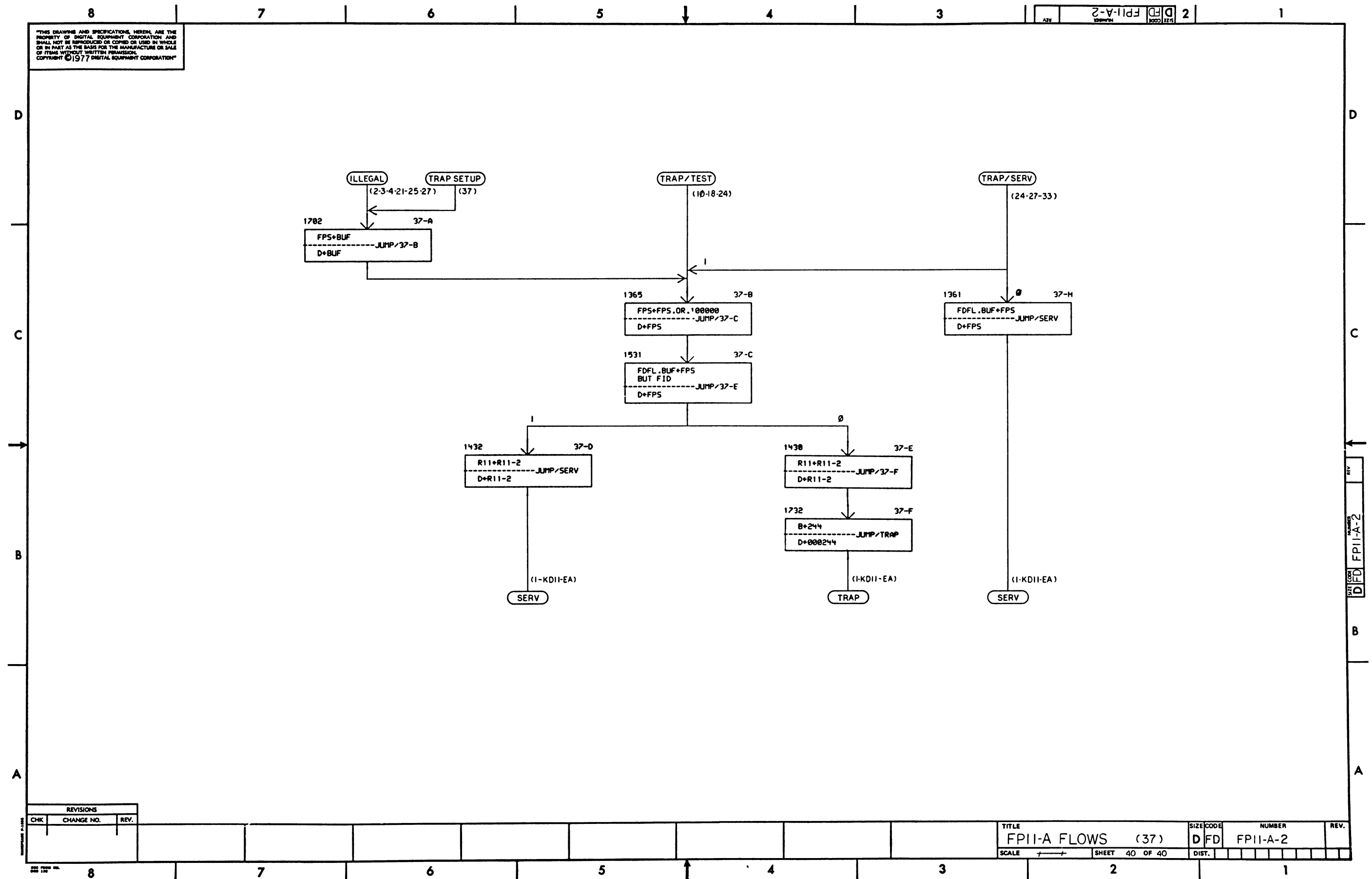






TITLE				SIZE		CODE		NUMBER				REV	
FPII-A FLOWS (35)				D		FD		FPII-A-2					
SCALE				SHEET		38 OF 40		DIST.					





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[illegible]

REVISIONS	REV.		USED ON OPTION/MODEL	DRN.	B.B. <i>Budget</i>	DATE	27 Oct 77	TITLE: FP11-A										digital			
	CHG. NO.			CHK'D	<i>[Signature]</i>	DATE	4 Nov 77														
	DATE				PROJ. ENG.	<i>[Signature]</i>	DATE	4 Nov 77	SIZE B	CODE FD	NUMBER FP11-A-5	REV.									
					FIELD SERV.	<i>[Signature]</i>	DATE	4 Nov 77													
					SHEET 1 OF 8			DIST.													

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MICRO FIELD DEFINITIONS

FCTL/=3,6,53,D

A.AND.B=41
D.AND.A=45
A.OR.B=31
D.OR.A=35
D.XOR.A=65
BBAR=73
QPASS=62
BPASS=63
APASS=64
DPASS=67
ZERO=42
ABAR.AND.B=51
DBAR.AND.A=55
A+B=1
D+A=5
BPLUS=3
B-1=13
-B-1=23
B-A-1=11
A-D-1=15
A-B-1=21
D-A-1=25

ECTL/=3,6,59,D

A.AND.B=41
D.AND.A=45
D.OR.A=35
A.XOR.B=61
D.XOR.A=65
BBAR=73
QPASS=62
BPASS=63
APASS=64
DPASS=67
ZERO=42
ABAR.AND.B=51
DBAR.AND.A=55
A+B=1
D+A=5
BPLUS=3
B-1=13
-B-1=23
B-A-1=11
A-D-1=15
A-B-1=21
D-A-1=25

ECIN/=0,1,60,D

ZERO=0
ONE=1

BSEL/=3,2,62,D

AC.OR.1=0
FDST=1
FSRC=1
AC=2
BROM=3

ASEL/=1,1,63,D

AC=0
AROM=1

TOUT/=1,1,64,D

NOP=0
1134_TBUS=1

DCTL/=0,4,68,D

NOP=0
LDBT=1
LDBF=2
LDQF=3
ROTL=4
ROTR=5
SLALU0=6
SR0ALU=7
SR1ALU=10
SLALU0.LDBF=11
SR1ALU.LDBF=12
SR0ALUQ=14
SLALU0Q=15

RET/=1,1,69,D

RETURN=0
STAY=1

BUT/=0,6,75,D

NOP=0
ENBT=54
EZBT=52
BUSRQ=55
FNBT=56
XZBT=57
QB.Q40=60
COUT63=61
EZBT.OP1A=13
FID=41
EZBT.Y8.Y9=62
EZBT.Y8=63
ENBT.Y8=64
ENBT.EZBT.FNBT=65
FNBT.XZBT=66
FIV=42
Y62=43
FIU=45
FIUV=46
FIC=47
FT=44
ENBT.EZBT=67
Y8=50
Y61=44
FD.FIV=2
Y62.OP1A=3
BREAKOUT=31
FD=32
OP1B=34
OP1C=35
OP1D=36
OP1E=37
FDST=71
FSRC=71
DST=72
SRC=72
GR7=73
GR7.FLBAR=74
FL=75
FLBAR=76
OP2A=77

CONST/=10,6,81,D

NOP=0
ZERO=53
ONES=40
OCT2=41
OCT5=42
OCT4=43
OCT6=44
OCT10=45
OCT12=46
OCT14=47
OCT100=50
OCT200=51
OCT100000=60
OCT40000=61
OCT147757=63
(143.159)=62
OCT10.4.2=64
OCT4.2=65
FDFLBAR=66
OCT4.10.2=67
(56.24)=55
(57.25)=56
(58.26)=57
OCT244=52
(31.15)=54
(56.24)*=70
OCT170000=71
BYTE10=3
BYTE32=4
BYTE43=5
BYTE54=6
BYTE65=7
BYTE76=10
BYTE07=11

MISC/=11,4,85,D

TBUS_1134=0
TBUS_BUF=1
BUF_TBUS=4
BUF_1134=5
FDFL_TBUS=6
FCC_TBUS=7
SERV.BR=10
NOP=11
FDFL_BUF=12
FDFL_BUF_TBUS=13
FDFL_BUFH_TBUS=15

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AROM/=0,3,88,D

AR10=0
AR11=1
AR12=2
AR13=3
AR14=4
FCCR=6
FPS=7

BROM/=0,3,91,D

BR10=0
BR11=1
BR12=2
BR13=3
BR14=4
FEC=5
FCCR=6
FPS=7

SECT/=17,4,95,D

S1=1
S2=2
S3=3
S4=4
S7=7
S10=10
S14=14
S17=17

RSPA/=0,4,47,D

PC=10
R11=6
R12=5
R14=3
R17=0

FORCE KER/=0,1,43,D

KER=1

BUT SERV/=0,1,42,D

SERV=1

PREVIOUS MODE/=1,1,41,D

ASSERT=0

FORCE RS+1/=1,1,40,D

RS+1=0

DST SEL/=3,2,39,D

RD=2
ROM=0

SRC SEL/=0,2,37,D

RD=2
ROM=0
RBA=3

BUT BITS/=0,4,35,D

NOP=0
NBIT=1
ZBIT=2
C05=3
COUT=7
NBITZBIT=11
NOSERV=17

AMUX/=1,2,31,D

UBUS=3
ALU=1

SSMUX/=0,2,29,D

STRT=0
SWAB=2

BBX CTRL/=0,4,27,D

HOLD=0
LOADB=1
LOADBX=2

ALU BLEG/=5,5,23,D

ZERO=0
A+1=2
A-1=3
A-B=4
A=5
B=6
A+B=10
A-BX=22
A+2=24
A-2=25
BX=27
BBAR=30

AUX CTRL/=0,1,18,D

AUX=1

CYCLE/=1,1,17,D

SHORT=1
LONG=0

LOAD BA/=0,1,16,D

BA=1

ENAB MAINT/=0,1,15,D

MAINT=1

BUS CTRL/=0,2,14,D

DATI=0
DATO=2

DATA TRAN/=0,1,12,D

TRAN=1

MISC CTRL/=0,3,11,D

NOP=0
LOADCC=3
LOADC=6
COUNT=7

J/=0,9,8,+

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FP11A MACRO DEFINITIONS

AC(32)_X10	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/AC,AROM/AR10,SECT/S14*
AC(32)_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BSEL/AC,SECT/S14*
AC.OR.1(32)_X12	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/AC.OR.1,AROM/AR12,SECT/S14*
AC.OR.1(32)_X14	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/AC.OR.1,AROM/AR14,SECT/S14*
AC.OR.1(32)_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BSEL/AC.OR.1,SECT/S14*
AC.OR.1_X12	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/AC.OR.1,AROM/AR12*
AC.OR.1_X14	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/AC.OR.1,AROM/AR14*
AC.OR.1_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BSEL/AC.OR.1*
AC_X10	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/AC,AROM/AR10*
AC_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BSEL/AC*
BA_PC	*LOAD BA/BA,RSPA/PC*
BA_R12	*LOAD BA/BA,RSPA/R12*
BA_R12 R12_R12+2	*LOAD BA/BA,DST SEL/ROM,RSPA/R12,ALU BLEG/A+2,TOUT/NOP*
BA_RD	*LOAD BA/BA,SRC SEL/RD*
BUF_FPS	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE10,MISC/BUF_TBUS,BROM/FPS*
BUF_RD B_RD	*MISC/BUF_1134,BBX CTRL/LOADB,SRC SEL/RD,TOUT/NOP,CONST/NOP*
BUF_UDATA	*MISC/BUF_1134,AMUX/UBUS,TOUT/NOP,CONST/NOP*
BUT (Q8.Q40)	*BUT/Q8.Q40,CYCLE/LONG*
BUT (Q8.Q40) ZBIT	*BUT/Q8.Q40,BUT BITS/ZBIT,CYCLE/LONG*
BUT BR.OR.PFAIL	*BUT/BUSRQ,CYCLE/LONG*
BUT BREAKOUT	*BUT/BREAKOUT*
BUT COUT15	*BUT BITS/COUT,CYCLE/LONG*
BUT COUT63 ZBIT	*BUT/COUT63,BUT BITS/ZBIT,CYCLE/LONG*
BUT DST	*BUT/DST*
BUT ENBT	*BUT/ENBT,CYCLE/LONG*
BUT ENBT EZBT	*BUT/ENBT.EZBT,CYCLE/LONG*
BUT ENBT EZBT XNBT	*BUT/ENBT.EZBT.FNBT,CYCLE/LONG*
BUT ENBT Y8	*BUT/ENBT.Y8,CONST/BYTE07,CYCLE/LONG*
BUT EZBT	*BUT/EZBT,CYCLE/LONG*
BUT EZBT OP1A	*BUT/EZBT.OP1A,CYCLE/LONG*
BUT EZBT Y8	*BUT/EZBT.Y8,CONST/BYTE07,CYCLE/LONG*
BUT EZBT Y9 Y8	*BUT/EZBT.Y8.Y9,CONST/BYTE07,CYCLE/LONG*
BUT FD	*BUT/FD*
BUT FDST	*BUT/FDST*
BUT FIC	*BUT/FIC,CYCLE/LONG*
BUT FID	*BUT/FID,CYCLE/LONG*
BUT FIU	*BUT/FIU,CYCLE/LONG*
BUT FIUV	*BUT/FIUV,CYCLE/LONG*
BUT FIV	*BUT/FIV,CYCLE/LONG*
BUT FIV FD	*BUT/FD.FIV,CYCLE/LONG*
BUT FL	*BUT/FL*
BUT FLAG	*BUT BITS/COS*
BUT FLBAR	*BUT/FLBAR*
BUT FSRC	*BUT/FSRC*
BUT FT	*BUT/FT,CYCLE/LONG*
BUT GR7	*BUT/GR7*
BUT GR7.OR.FLBAR	*BUT/GR7.FLBAR*
BUT NBIT	*BUT BITS/NBIT,CYCLE/LONG*
BUT NBIT ZBIT	*BUT BITS/NBITZBIT,CYCLE/LONG*
BUT NOSERV	*BUT BITS/NOSERV*
BUT OP1B	*BUT/OP1B*
BUT OP1C	*BUT/OP1C*
BUT OP1D	*BUT/OP1D*

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BUT OP1E	'BUT/OP1E'
BUT OP2A	'BUT/OP2A'
BUT SERV(BR,OR,PFAIL)	'BUT SERV/SERV,MISC/SERV.BR'
BUT SRC	'BUT/SRC'
BUT XNBT	'BUT/FNBT,CYCLE/LONG'
BUT XNBT XZBT	'BUT/FNBT,XZBT,CYCLE/LONG'
BUT XZBT	'BUT/XZBT,CYCLE/LONG'
BUT Y61	'BUT/Y61,CONST/BYTE65,CYCLE/LONG'
BUT Y62	'BUT/Y62,CONST/BYTE65,CYCLE/LONG'
BUT Y62 OP1A	'BUT/Y62.OP1A,CONST/BYTE65,CYCLE/LONG'
BUT Y8	'BUT/Y8,CONST/BYTE10,CYCLE/LONG'
BUT ZBIT	'BUT BITS/ZBIT,CYCLE/LONG'
BX_R11	'BBX CTRL/LOADBX,RSPA/R11,TOUT/NOP'
BX_R14	'BBX CTRL/LOADBX,RSPA/R14,TOUT/NOP'
BX_R17-BX	'BBX CTRL/LOADBX,RSPA/R17,ALU BLEG/A-BX,TOUT/NOP'
BX_X11(L) SWAB	'FCTL/BPASS,ECTL/BPASS,CONST/BYTE43,BROM/BR11,BBX CTRL/LOADBX,SSMUX/SWAB'
BX_X11(L) SWAB F_EAC	'FCTL/BPASS,ECTL/APASS,ASEL/AC,CONST/BYTE43,BROM/BR11,BBX CTRL/LOADBX,SSMUX/SWAB'
BX_ZERO	'BBX CTRL/LOADBX,ALU BLEG/ZERO,TOUT/NOP'
B_(10.4.2)	'CONST/OCT10.4.2,BBX CTRL/LOADB'
B_(4.10.2)	'CONST/OCT4.10.2,BBX CTRL/LOADB'
B_(4.2)	'CONST/OCT4.2,BBX CTRL/LOADB'
B_2 CLEAR FDFL	'CONST/OCT2,MISC/FDFL_TBUS,BBX CTRL/LOADB'
B_244	'CONST/OCT244,BBX CTRL/LOADB'
B_B SWAB	'BBX CTRL/LOADB,ALU BLEG/B,SSMUX/SWAB,TOUT/NOP'
B_B+R17	'DST SEL/ROM,RSPA/R17,ALU BLEG/A+B,BBX CTRL/LOADB,TOUT/NOP'
B_R17	'BBX CTRL/LOADB,RSPA/R17,TOUT/NOP'
B_UDATA	'BBX CTRL/LOADB,AMUX/UBUS,TOUT/NOP'
B_UDATA BUF_UDATA	'BBX CTRL/LOADB,AMUX/UBUS,MISC/BUF_1134,TOUT/NOP,CONST/NOP'
B_X11(H) SWAB	'FCTL/BPASS,ECTL/BPASS,CONST/BYTE65,BROM/BR11,BBX CTRL/LOADB,SSMUX/SWAB'
B_X11(H) SWAB F_EAC	'FCTL/BPASS,ECTL/APASS,ASEL/AC,CONST/BYTE65,BROM/BR11,BBX CTRL/LOADB,SSMUX/SWAB'
B_X13-X14 SWAB	'BBX CTRL/LOADB,FCTL/A-B-1,ECTL/A-B-1,ECIN/ONE,CONST/BYTE07,AROM/AR13,BROM/BR14,SSMUX/SWAB,CYCLE/LONG'
B_X14-X13 SWAB	'BBX CTRL/LOADB,FCTL/B-A-1,ECTL/B-A-1,ECIN/ONE,CONST/BYTE07,AROM/AR13,BROM/BR14,SSMUX/SWAB,CYCLE/LONG'
CC_FCC	'MISC/TBUS_BUF,MISC CTRL/LOADCC,CONST/NOP'
CLEAR FD(FPS)	'FCTL/DBAR.AND.A,ECTL/DBAR.AND.A,DCTL/LDBF,CONST/OCT200,AROM/FPS,BROM/FPS'
CLEAR FDFL	'CONST/ZERO,MISC/FDFL_TBUS'
CLEAR FL(FPS)	'FCTL/DBAR.AND.A,ECTL/DBAR.AND.A,DCTL/LDBF,CONST/OCT100,AROM/FPS,BROM/FPS'
CLEAR FLAG	'MISC CTRL/LOADC,ALU BLEG/ZERO,TOUT/NOP'
CLEAR SIGN	'FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR10'
CLEAR SIGN T_X12	'FCTL/ZERO,ECTL/ZERO,DCTL/LDBT,AROM/AR12,BROM/BR10'
DATI	'DATA TRAN/TRAN'
DATO	'DATA TRAN/TRAN,BUS CTRL/DATO,CYCLE/LONG'
F10_F10 E10_E10.AND.177	'FCTL/BPASS,ECTL/DBAR.AND.A,DCTL/LDBF,CONST/OCT100000,AROM/AR10,BROM/BR10'
F10_F10 E10_E10.XOR.200	'FCTL/BPASS,ECTL/D.XOR.A,DCTL/LDBF,CONST/OCT100000,AROM/AR10,BROM/BR10'
F11_SR1(F11) E11_E11	'FCTL/BPASS,ECTL/BPASS,DCTL/SR1ALU.LDBF,BROM/BR11'
F11_SR1(F11) E11_ZERO	'FCTL/BPASS,ECTL/ZERO,DCTL/SR1ALU.LDBF,BROM/BR11'
F12_F12 E12_B	'FCTL/BPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_1134,BROM/BR12,ALU BLEG/B,TOUT/NOP,CONST/NOP'
F12_F12 E12_E12+200	'FCTL/BPASS,ECTL/D+A,DCTL/LDBF,CONST/OCT100000,AROM/AR12,BROM/BR12,CYCLE/LONG'
F12_F12 E12_E12.AND.360	'FCTL/BPASS,ECTL/D.AND.A,DCTL/LDBF,CONST/OCT170000,AROM/AR12,BROM/BR12'
F12_F12.OR.F10 E12_E12	'FCTL/A.OR.B,ECTL/BPASS,DCTL/LDBF,AROM/AR10,BROM/BR12'
F12_SL0(F12) E12_E13	'FCTL/BPASS,ECTL/APASS,DCTL/SLALU0.LDBF,AROM/AR13,BROM/BR12'
F12_SR1(F12) E12_ZERO	'FCTL/BPASS,ECTL/ZERO,DCTL/SR1ALU.LDBF,BROM/BR12'
F13_ZERO E13_E11	'FCTL/ZERO,ECTL/APASS,DCTL/LDBF,AROM/AR11,BROM/BR13'
F13_ZERO E13_E11.XOR.200	'FCTL/ZERO,ECTL/D.XOR.A,DCTL/LDBF,CONST/OCT100000,AROM/AR11,BROM/BR13'
F13_ZERO E13_E12	'FCTL/ZERO,ECTL/APASS,DCTL/LDBF,AROM/AR12,BROM/BR13'
F13_ZERO E13_E12 T_X12	'FCTL/ZERO,ECTL/APASS,DCTL/LDBT,AROM/AR12,BROM/BR13'

TITLE

FPII-A FLOWS

SHEET 5 OF 8

SIZE CODE

B FD

NUMBER

FPII-A-5

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F14_SLO(F14) E14_E13	*FCTL/BPASS,ECTL/APASS,DCTL/SLALU0,LDBF,AROM/AR13,BROM/BR14"
F14_ZERO E14_E12	*FCTL/ZERO,ECTL/APASS,DCTL/LDBF,AROM/AR12,BROM/BR14"
F14_ZERO E14_E12 T_X12	*FCTL/ZERO,ECTL/APASS,DCTL/LDBT,AROM/AR12,BROM/BR14"
FCCR_FCCR.OR.02	*FCTL/D.OR.A,ECTL/D.OR.A,DCTL/LDBF,CONST/OCT2,AROM/FCCR,BROM/FCCR"
FCC_00	*CONST/ZERO,MISC/FCC_TBUS"
FCC_00 FCCR_00	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/ZERO,MISC/FCC_TBUS,BROM/FCCR"
FCC_04 FCCR_04	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT4,MISC/FCC_TBUS,BROM/FCCR"
FCC_04(FZ)	*CONST/OCT4,MISC/FCC_TBUS"
FCC_05(FZFC)	*CONST/OCT5,MISC/FCC_TBUS"
FCC_06(FZFU)	*CONST/OCT6,MISC/FCC_TBUS"
FCC_10 FCCR_10	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT10,MISC/FCC_TBUS,BROM/FCCR"
FCC_10(FN)	*CONST/OCT10,MISC/FCC_TBUS"
FCC_14 FCCR_14	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT14,MISC/FCC_TBUS,BROM/FCCR"
FCC_14(FNFZ)	*CONST/OCT14,MISC/FCC_TBUS"
FCC_FCCR	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE10,MISC/FCC_TBUS,BROM/FCCR"
FDFL.BUFH_FPS X10_X10	*FCTL/BPASS,ECTL/BPASS,DCTL/LDBT,CONST/BYTE10,MISC/FDFL.BUFH_TBUS,AROM/FPS,BROM/BR10"
FDFL.BUF_FPS	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE10,MISC/FDFL.BUF_TBUS,BROM/FPS"
FDFL.BUF_FPS F_E13	*FCTL/BPASS,ECTL/APASS,CONST/BYTE10,MISC/FDFL.BUF_TBUS,AROM/AR13,BROM/FPS"
FDFL_BUF	*MISC/FDFL_BUF,CONST/NOP"
FDFL_FDFLBAR	*CONST/FDFLBAR,MISC/FDFL_TBUS"
FDST(3)_X10	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/FDST,AROM/AR10,SECT/S10"
FEC_02	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT2,BROM/FEC"
FEC_04	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT4,BROM/FEC"
FEC_06	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT6,BROM/FEC"
FEC_10	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT10,BROM/FEC"
FEC_12	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT12,BROM/FEC"
FEC_14	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT14,BROM/FEC"
FPS_BUF	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/FPS,CONST/NOP"
FPS_BUF CC_BUF	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/FPS,MISC CTRL/LOADCC,CONST/NOP"
FPS_FPS.AND.147757	*FCTL/D.AND.A,ECTL/D.AND.A,DCTL/LDBF,CONST/OCT147757,AROM/FPS,BROM/FPS"
FPS_FPS.OR.100000	*FCTL/D.OR.A,ECTL/D.OR.A,DCTL/LDBF,CONST/OCT100000,AROM/FPS,BROM/FPS"
FSRC(32)_X11	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/FSRC,AROM/AR11,SECT/S14"
FSRC_X11	*FCTL/APASS,ECTL/APASS,DCTL/LDBF,BSEL/FSRC,AROM/AR11"
F_AC	*FCTL/BPASS,ECTL/BPASS,BSEL/AC"
F_AC.XOR.200	*FCTL/D.XOR.A,ECTL/D.XOR.A,ASEL/AC,CONST/OCT100000"
F_Q	*FCTL/QPASS,ECTL/QPASS"
F_X10	*FCTL/BPASS,ECTL/BPASS,BROM/BR10"
F_X10BAR	*FCTL/BBAR,ECTL/BBAR,BROM/BR10"
F_X12	*FCTL/BPASS,ECTL/BPASS,BROM/BR12"
F_X13	*FCTL/BPASS,ECTL/BPASS,BROM/BR13"
MAINT	ENAB MAINT/MAINT"
PC_PC+2	*DST SEL/ROM,RSPA/PC,ALU BLEG/A+2,TOUT/NOP"
PC_PC-2	*DST SEL/ROM,RSPA/PC,ALU BLEG/A-2,TOUT/NOP"
Q_(F12*EAC)	*FCTL/APASS,ECTL/BPASS,DCTL/LDQF,BSEL/AC,AROM/AR12"
Q_FDST	*FCTL/BPASS,ECTL/BPASS,DCTL/LDQF,BSEL/FDST"
Q_FSRC	*FCTL/BPASS,ECTL/BPASS,DCTL/LDQF,BSEL/FSRC"
Q_X12	*FCTL/BPASS,ECTL/BPASS,DCTL/LDQF,BROM/BR12"
Q_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDQF"
R11_BX	*DST SEL/ROM,RSPA/R11,ALU BLEG/BX,TOUT/NOP"
R11_R11-2	*DST SEL/ROM,RSPA/R11,ALU BLEG/A-2,TOUT/NOP"
R12_R12+2	*DST SEL/ROM,RSPA/R12,ALU BLEG/A+2,TOUT/NOP"
R12_RD	*DST SEL/ROM,RSPA/R12,SRC SEL/RD,TOUT/NOP"
R12_RD+B	*DST SEL/ROM,RSPA/R12,SRC SEL/RD,ALU BLEG/A+B,TOUT/NOP"
R12_RD-2	*DST SEL/ROM,RSPA/R12,SRC SEL/RD,ALU BLEG/A-2,TOUT/NOP"
R12_RD-B	*DST SEL/ROM,RSPA/R12,SRC SEL/RD,ALU BLEG/A-B,TOUT/NOP"

TITLE

FPII-A FLOWS

SHEET 6 OF 8

SIZE CODE

B FD

NUMBER

FPII-A-5

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R12_UDATA	*DST SEL/ROM,RSPA/R12,AMUX/UBUS,TOUT/NOP*
R14_(237.217)	*CONST/(143.159),DST SEL/ROM,RSPA/R14*
R14_(70.30)	*CONST/(56.24),DST SEL/ROM,RSPA/R14*
R14_(72.32)	*CONST/(58.26),DST SEL/ROM,RSPA/R14*
R14_4	*CONST/OCT4,DST SEL/ROM,RSPA/R14*
R14_B	*DST SEL/ROM,RSPA/R14,ALU BLEG/B,TOUT/NOP*
R14_BX	*DST SEL/ROM,RSPA/R14,ALU BLEG/BX,TOUT/NOP*
R14_R14 SWAB	*DST SEL/ROM,RSPA/R14,SSMUX/SWAB,TOUT/NOP*
R14_R14+1	*DST SEL/ROM,RSPA/R14,ALU BLEG/A+1,TOUT/NOP*
R14_R14+1 SWAB	*DST SEL/ROM,RSPA/R14,ALU BLEG/A+1,SSMUX/SWAB,TOUT/NOP*
R14_R14-1	*DST SEL/ROM,RSPA/R14,ALU BLEG/A-1,TOUT/NOP*
R14_X11 SWAB	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE07,BROM/BR11,DST SEL/ROM,RSPA/R14,SSMUX/SWAB,CYCLE/LONG*
R14_X13 SWAB	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE07,BROM/BR13,DST SEL/ROM,RSPA/R14,SSMUX/SWAB,CYCLE/LONG*
R14_X14 SWAB	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE07,BROM/BR14,DST SEL/ROM,RSPA/R14,SSMUX/SWAB,CYCLE/LONG*
R17_(71.31)	*DST SEL/ROM,RSPA/R17,CONST/(57.25)*
R17_2	*CONST/OCT2,DST SEL/ROM,RSPA/R17*
R17_B	*DST SEL/ROM,RSPA/R17,ALU BLEG/B,TOUT/NOP*
R17_BBAR	*DST SEL/ROM,RSPA/R17,ALU BLEG/BBAR,TOUT/NOP*
R17_FEC	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE10,BROM/FEC,DST SEL/ROM,RSPA/R17,CYCLE/LONG*
R17_FPS	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE10,BROM/FPS,DST SEL/ROM,RSPA/R17,CYCLE/LONG*
R17_R17-B	*DST SEL/ROM,RSPA/R17,ALU BLEG/A-B,TOUT/NOP*
R17_X13 SWAB	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE07,BROM/BR13,DST SEL/ROM,RSPA/R17,SSMUX/SWAB,CYCLE/LONG*
R17_ZERO	*DST SEL/ROM,RSPA/R17,ALU BLEG/ZERO,TOUT/NOP*
RD_R17	*DST SEL/RD,SRC SEL/ROM,RSPA/R17,TOUT/NOP*
RD_RD+2	*DST SEL/RD,SRC SEL/RD,ALU BLEG/A+2,TOUT/NOP*
RD_RD+B	*DST SEL/RD,SRC SEL/RD,ALU BLEG/A+B,TOUT/NOP*
RD_RD-2	*DST SEL/RD,SRC SEL/RD,ALU BLEG/A-2,TOUT/NOP*
RD_RD-B	*DST SEL/RD,SRC SEL/RD,ALU BLEG/A-B,TOUT/NOP*
RETURN	*RET/RETURN*
SERV(BR,OR,PFAIL)	*MISC/SERV.BR*
SET FD(FPS)	*FCTL/D.OR.A,ECTL/D.OR.A,DCTL/LDBF,CONST/OCT200,AROM/FPS,BROM/FPS*
SET FDFL	*CONST/ONES,MISC/FDFL,TBUS*
SET FL(FPS)	*FCTL/D.OR.A,ECTL/D.OR.A,DCTL/LDBF,CONST/OCT100,AROM/FPS,BROM/FPS*
SET FLAG	*MISC CTRL/COUNT*
SET SIGN	*FCTL/ZERO,ECTL/DPASS,DCTL/SLALU0,CONST/OCT100000,BROM/BR10*
TBUS_BUF	*MISC/TBUS_BUF,CONST/NOP*
T_B	*ALU BLEG/B,TOUT/NOP*
T_R14	*RSPA/R14,TOUT/NOP*
T_R14-B	*RSPA/R14,ALU BLEG/A-B,TOUT/NOP*
T_R17+B	*RSPA/R17,ALU BLEG/A+B,TOUT/NOP*
UDATA_BX	*ALU BLEG/BX,TOUT/NOP*
UDATA_R17	*SRC SEL/ROM,RSPA/R17,TOUT/NOP*
UDATA_X10(3)	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE76,BROM/BR10*
UDATA_X11(0)	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE10,BROM/BR11*
UDATA_X11(1)	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE32,BROM/BR11*
UDATA_X11(2)	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE54,BROM/BR11*
UDATA_X11(3)	*FCTL/BPASS,ECTL/BPASS,CONST/BYTE76,BROM/BR11*
X10(0)_BUF	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/BR10,SECT/S1,CONST/NOP*
X10(1)_BUF	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/BR10,SECT/S2,CONST/NOP*
X10(10)_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR10,SECT/S3*
X10(2)_BUF	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/BR10,SECT/S4,CONST/NOP*
X10(210)_ZERO	*FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR10,SECT/S7*
X10(3)_BUF	*FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/BR10,SECT/S10,CONST/NOP*
X10_Q	*FCTL/QPASS,ECTL/QPASS,DCTL/LDBF,BROM/BR10*
X10_ROT(L ZERO*(EAC.XOR.E10)	*FCTL/ZERO,ECTL/A.XOR.B,DCTL/ROT(L,ASEL/AC,BROM/BR10*

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X10_ROT R(X12)	"FCTL/APASS,ECTL/APASS,DCTL/ROTR,AROM/AR12,BROM/BR10"
X10_X11	"FCTL/APASS,ECTL/APASS,DCTL/LDBF,AROM/AR11,BROM/BR10"
X11(10)_ZERO	"FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR11,SECT/S3"
X11_(70.30)-X14	"FCTL/D-A-1,ECTL/D-A-1,DCTL/LDBF,ECIN/ONE,CONST/(56.24)*,AROM/AR14,BROM/BR11,CYCLE/LONG"
X11_AC	"FCTL/APASS,ECTL/APASS,DCTL/LDBF,ASEL/AC,BROM/BR11"
X11_ROT L(X11)	"FCTL/BPASS,ECTL/BPASS,DCTL/ROTL,BROM/BR11"
X11_ROT R(X12)	"FCTL/APASS,ECTL/APASS,DCTL/ROTR,AROM/AR12,BROM/BR11"
X11_SL0(X11-X12) Q_SLC63(Q)	"FCTL/B-A-1,ECTL/B-A-1,DCTL/SLALU0Q,ECIN/ONE,AROM/AR12,BROM/BR11"
X11_SL0(X12+X11) Q_SLC63(Q)	"FCTL/A+B,ECTL/A+B,DCTL/SLALU0Q,AROM/AR12,BROM/BR11"
X11_SR0(X11)	"FCTL/BPASS,ECTL/BPASS,DCTL/SROALU,BROM/BR11"
X11_SR1(X11)	"FCTL/BPASS,ECTL/BPASS,DCTL/SR1ALU,BROM/BR11"
X11_X12	"FCTL/APASS,ECTL/APASS,DCTL/LDBF,AROM/AR12,BROM/BR11"
X11_ZERO	"FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR11"
X12(1)_BUF	"FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/BR12,SECT/S2,CONST/NOP"
X12(2)_BUF	"FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_BUF,BROM/BR12,SECT/S4,CONST/NOP"
X12_-X12	"FCTL/-B-1,ECTL/-B-1,ECIN/ONE,DCTL/LDBF,BROM/BR12,CYCLE/LONG"
X12_ROT L(X10)	"FCTL/APASS,ECTL/APASS,DCTL/ROTL,AROM/AR10,BROM/BR12"
X12_ROT L(X11)	"FCTL/APASS,ECTL/APASS,DCTL/ROTL,AROM/AR11,BROM/BR12"
X12_ROT R(F10.OR.F12)*E12)	"FCTL/A.OR.B,ECTL/BPASS,DCTL/ROTR,AROM/AR10,BROM/BR12"
X12_SL0(Q)	"FCTL/QPASS,ECTL/QPASS,DCTL/SLALU0,BROM/BR12"
X12_SL0(X12)	"FCTL/BPASS,ECTL/BPASS,DCTL/SLALU0,BROM/BR12"
X12_SL00(X12)	"FCTL/A+B,ECTL/A+B,DCTL/SLALU0,AROM/AR12,BROM/BR12,CYCLE/LONG"
X12_SR0(X11+X12) Q_SR0(Q)	"FCTL/A+B,ECTL/A+B,DCTL/SROALUQ,AROM/AR11,BROM/BR12"
X12_SR0(X11BAR.AND.X12)	"FCTL/ABAR.AND.B,ECTL/ABAR.AND.B,DCTL/SROALU,AROM/AR11,BROM/BR12"
X12_SR0(X12)	"FCTL/BPASS,ECTL/BPASS,DCTL/SROALU,BROM/BR12"
X12_SR0(X12) Q_SR0(Q)	"FCTL/BPASS,ECTL/BPASS,DCTL/SROALUQ,BROM/BR12"
X12_X10	"FCTL/APASS,ECTL/APASS,DCTL/LDBF,AROM/AR10,BROM/BR12"
X12_X11-X12	"FCTL/A-B-1,ECTL/A-B-1,DCTL/LDBF,ECIN/ONE,AROM/AR11,BROM/BR12,CYCLE/LONG"
X12_X12+X11	"FCTL/A+B,ECTL/A+B,DCTL/LDBF,AROM/AR11,BROM/BR12,CYCLE/LONG"
X12_X12+X14	"FCTL/A+B,ECTL/A+B,DCTL/LDBF,AROM/AR14,BROM/BR12,CYCLE/LONG"
X12_X12-X11	"FCTL/B-A-1,ECTL/B-A-1,DCTL/LDBF,ECIN/ONE,AROM/AR11,BROM/BR12,CYCLE/LONG"
X12_ZERO	"FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR12"
X13_(37.17)-X13	"FCTL/D-A-1,ECTL/D-A-1,DCTL/LDBF,ECIN/ONE,CONST/(31.15),AROM/AR13,BROM/BR13,CYCLE/LONG"
X13_R14	"FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_1134,BROM/BR13,RSPA/R14,CYCLE/LONG,TOUT/NOP,CONST/NOP"
X13_X13+1	"FCTL/BPLUS,ECTL/BPLUS,DCTL/LDBF,ECIN/ONE,BROM/BR13"
X13_X13+200	"FCTL/D+A,ECTL/D+A,DCTL/LDBF,CONST/OCT100000,AROM/AR13,BROM/BR13,CYCLE/LONG"
X13_X13+X14	"FCTL/A+B,ECTL/A+B,DCTL/LDBF,AROM/AR14,BROM/BR13"
X13_X13-1	"FCTL/B-1,ECTL/B-1,DCTL/LDBF,BROM/BR13"
X13_X13-200	"FCTL/A-D-1,ECTL/A-D-1,DCTL/LDBF,ECIN/ONE,CONST/OCT100000,AROM/AR13,BROM/BR13,CYCLE/LONG"
X13_X13-X14	"FCTL/B-A-1,ECTL/B-A-1,ECIN/ONE,DCTL/LDBF,AROM/AR14,BROM/BR13"
X13_X14	"FCTL/APASS,ECTL/APASS,DCTL/LDBF,AROM/AR14,BROM/BR13"
X14(1)_40000	"FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT40000,BROM/BR14,SECT/S2"
X14(3)_40000	"FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,CONST/OCT40000,BROM/BR14,SECT/S10"
X14_R14	"FCTL/DPASS,ECTL/DPASS,DCTL/LDBF,MISC/TBUS_1134,BROM/BR14,RSPA/R14,CYCLE/LONG,TOUT/NOP,CONST/NOP"
X14_ROT R(F10.OR.F14)*E14)	"FCTL/A.OR.B,ECTL/BPASS,DCTL/ROTR,AROM/AR10,BROM/BR14"
X14_X11.AND.X14	"FCTL/A.AND.B,ECTL/A.AND.B,DCTL/LDBF,AROM/AR11,BROM/BR14"
X14_X12	"FCTL/APASS,ECTL/APASS,DCTL/LDBF,AROM/AR12,BROM/BR14"
X14_X13.XOR.200	"FCTL/D.XOR.A,ECTL/D.XOR.A,DCTL/LDBF,CONST/OCT100000,AROM/AR13,BROM/BR14"
X14_ZERO	"FCTL/ZERO,ECTL/ZERO,DCTL/LDBF,BROM/BR14"

TITLE

FPII-A FLOWS

SHEET 8 OF 8

SIZE
CODE
B FD

NUMBER
FPII-A-5

REV

BLANK

FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS

[illegible]

PRINT SET ORDER NO.
MP00271

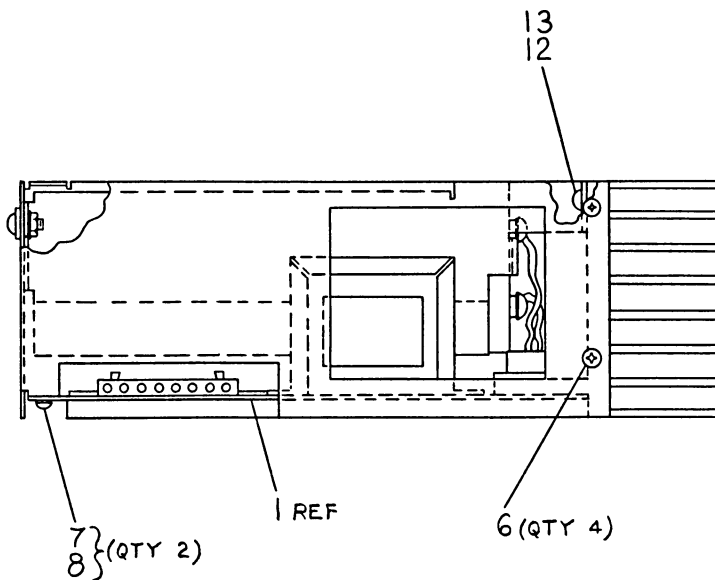
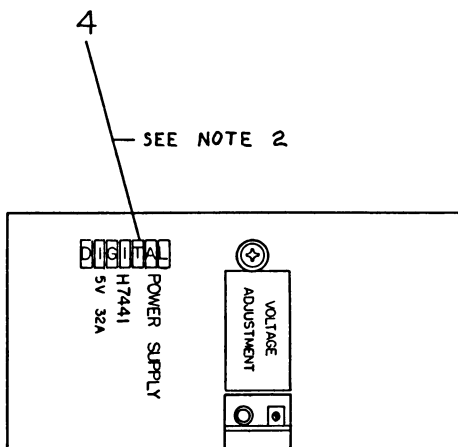
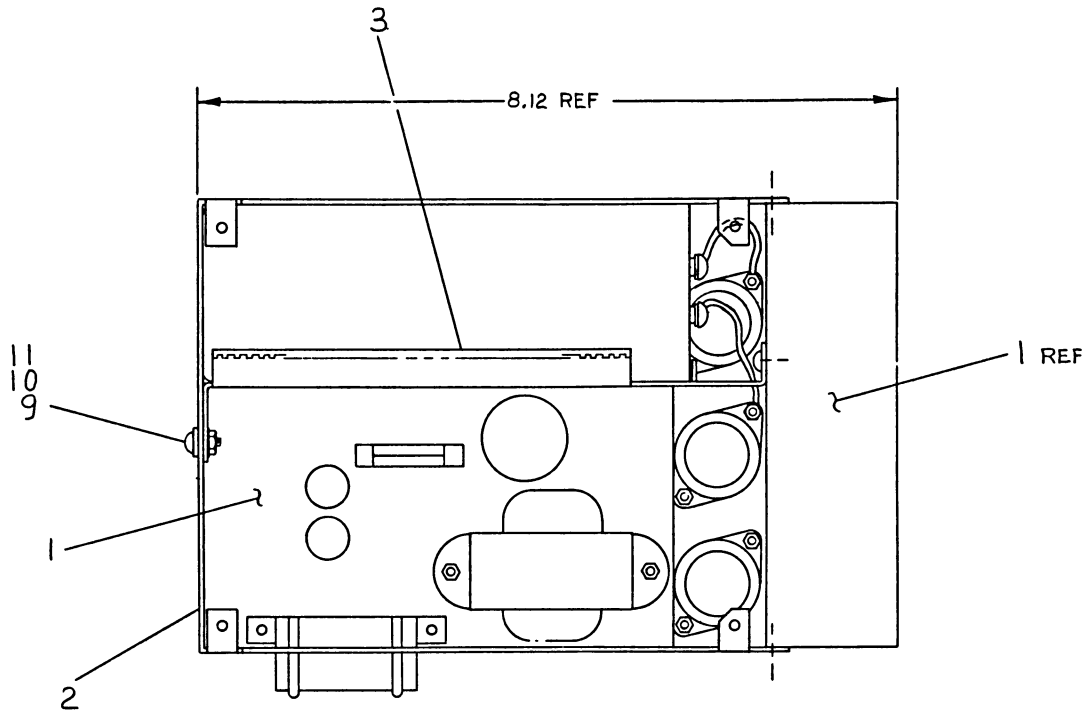
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NOTES:

1. ATTACH (RED) WIRE FROM ITEM (#1) REF TO POSITIVE (+) TERM. OF CAPACITOR ITEM (#5). ATTACH REMAINING (BLK) WIRE TO THE (-) TERMINAL OF THE CAP (ITEM 5).
2. PEEL AND ATTACH ITEM 4 TO ITEM 2 AS SHOWN.



1	WASHER, LOCK INT. TOOTH #6	9006633	13
1	SCR, PHL PAN HD. #6-32X.38	9006022-01	12
1	NUT, KEPS #6-32X.31	9006560	11
1	WASHER, FLAT #6	9006659	10
1	SCR, PHL PAN HD. #6-32X.31	9006021-01	9
2	WASHER FLAT #4	9008172	8
2	SCR, PHL PAN HD #4-40X.25	9008301-01	7
4	SCR, SELF TAPPING #4-40X.31	9009142-2	6
1	CAPACITOR, 24K, 50 VDC	1010702-00	5
1	DECAL	B-1A-7416945-10	4
1	BRACKET, CAPACITOR	D-1A-7417543-0-0	3
1	BRACKET, REGULATOR	D-1A-5309756-09	2
1	REGULATOR, +5V, 32 A	D-UA-5412441-0-0	1

DESCRIPTION	DWG / PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES
SURFACE QUALITY IN	(CHECK ONE)	OVER 0 TO 0.25
MEDIUM	PREFERRED	OVER 0.25 TO 0.50
		OVER 0.50 TO 1.00
		OVER 1.00 TO 2.00
		OVER 2.00 TO 4.00
		OVER 4.00 TO 8.00
		OVER 8.00 TO 16.00
		OVER 16.00 TO 32.00
		OVER 32.00 TO 64.00
		OVER 64.00 TO 128.00
		OVER 128.00 TO 256.00
		OVER 256.00 TO 512.00
		OVER 512.00 TO 1024.00
		OVER 1024.00 TO 2048.00
		OVER 2048.00 TO 4096.00
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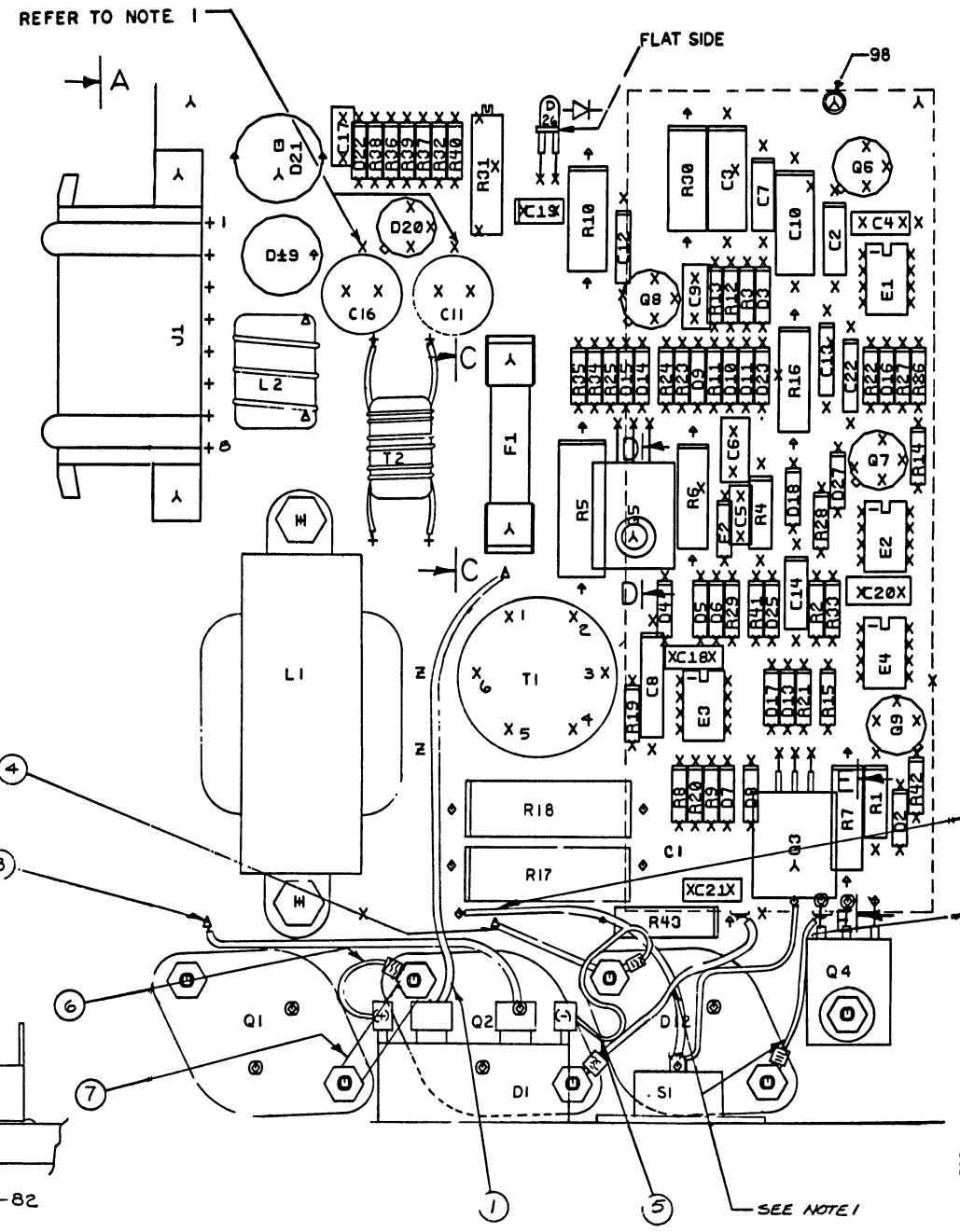
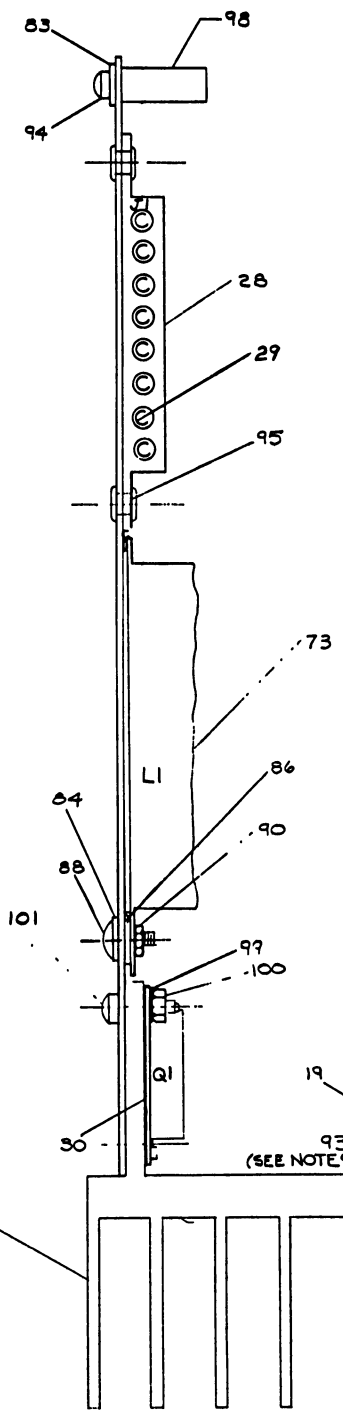
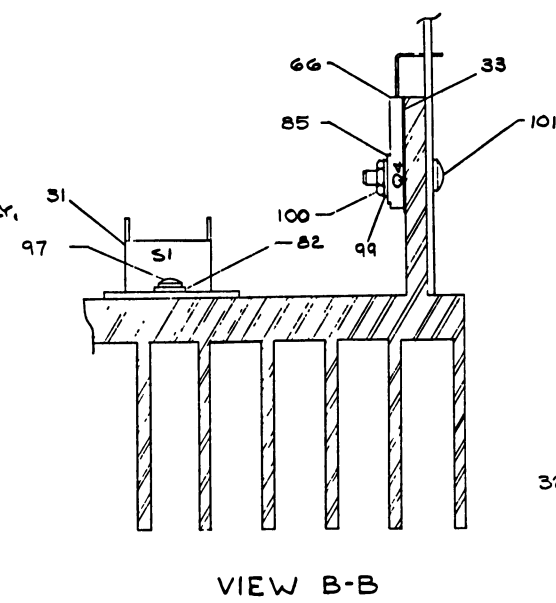
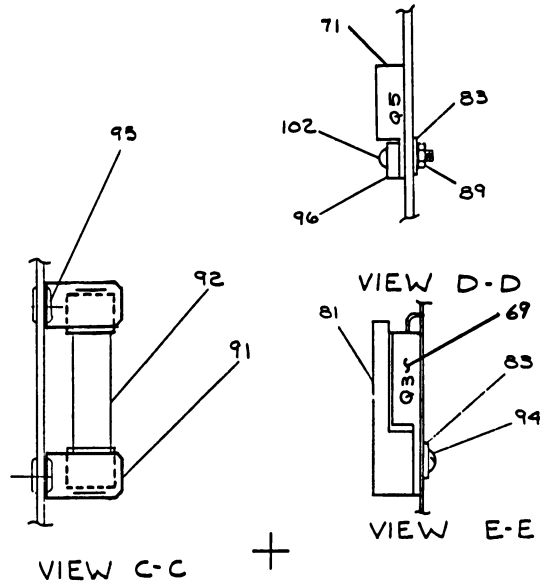
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COMPONENT SIDE VIEW

WIRE & BUS STRAP RUNS

NO.	FROM	TO	WIRE OR BUS LENGTH
①	FEEDTHRU AT F1	TERMINAL D1	*14 AWG 4" SEE NOTE 3
②	S1	FEEDTHRU SHOWN	*18 AWG 3"
③	S1	FEEDTHRU SHOWN	*18 AWG 2.5"
④	D12	FEEDTHRU SHOWN	DEC PT. #1214074-05 SEE NOTE 4
⑤	TERMINAL D1	D12	*14 AWG 3" SEE NOTE 5
⑥	TERMINAL D1	Q2	*14 AWG 2" SEE NOTE 6
⑦	Q2	Q1	DEC PT. #1214074-04 SEE NOTE 7
⑧	TERMINAL D1	FEEDTHRU SHOWN	*14 AWG 2.75" SEE NOTE 2

NOTES. 1. MOUNT WIRES PER I.A. DRAWING NO. IA 7015274. RED WIRE TO CASE Q2 AND POSITIVE TERMINAL C1 & BLACK WIRE TO CASE D12 AND NEGATIVE TERMINAL C1.
2. WIRE RUN ② IS SOLDERED AT D1.
3. WIRE RUN ③ IS SOLDERED AT D1.
4. STRAP ④ (ITEM #26) IS SOLDERED AT FEEDTHROUGH SHOWN AND MOUNTED UNDER RING LUG OF D12.
5. WIRE RUN ⑤ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF D12.
6. WIRE RUN ⑥ IS SOLDERED AT D1 AND CRIMPED TO RING LUG ITEM #87 OF Q2.
7. BUS STRAP ⑦ (ITEM #25) IS MOUNTED UNDER RING LUG OF Q2 AND ON CASE OF Q1.
8. TORQUE HARDWARE, ON Q1, Q2, Q4 AND D12 TO 8 INCH-LBS. FROM NUT SIDE ONLY.
9. APPLY THERMAL COMPOUND TO D1 (ITEM 19) ONLY.



NOTES:

1. INDICATED DRILL POINTS AT C11 AND C16 SHOULD NOT BE USED FOR DRILL ALIGNMENT DURING MANUFACTURE. THESE OVERSIZED PADS WILL NOT CENTER WITH DRILL BORING.

CHANGE NO	REV	DATE	BY	APP
1	1	5-20-77	H	
2	1	5-20-77	H	
3	1	5-20-77	H	
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100	1	5-20-77	H	

VIEW A-A

ETCH REV. B
P.C. DESIGN DATA BASE REV. B-P4

SIGNATURES	DATE	digital
DRN. Burt G. Hunt	5-20-77	
CHK'D. W. J. Hunt	5-20-77	TITLE +5V, 32 AMP REGULATOR
ENG. B. J. Hunt	5-20-77	
PROJ. ENG. B. J. Hunt	5-20-77	SCALE 2/1
PROD. B. J. Hunt	5-20-77	
SHT. 1 OF 3		SIZE CODE NUMBER REV
NEXT HIGHER ASSY. B-DD-5412441-0		
		D UA 5412441-0 J

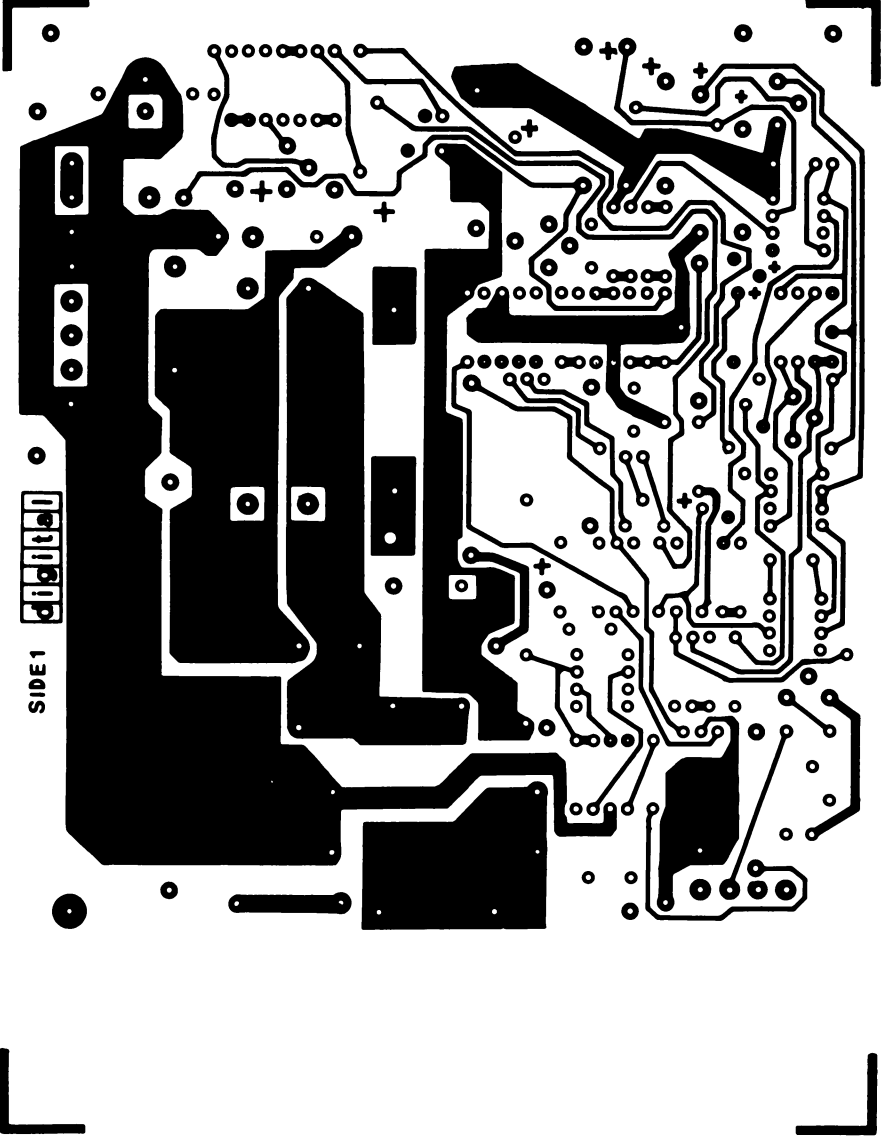
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01917

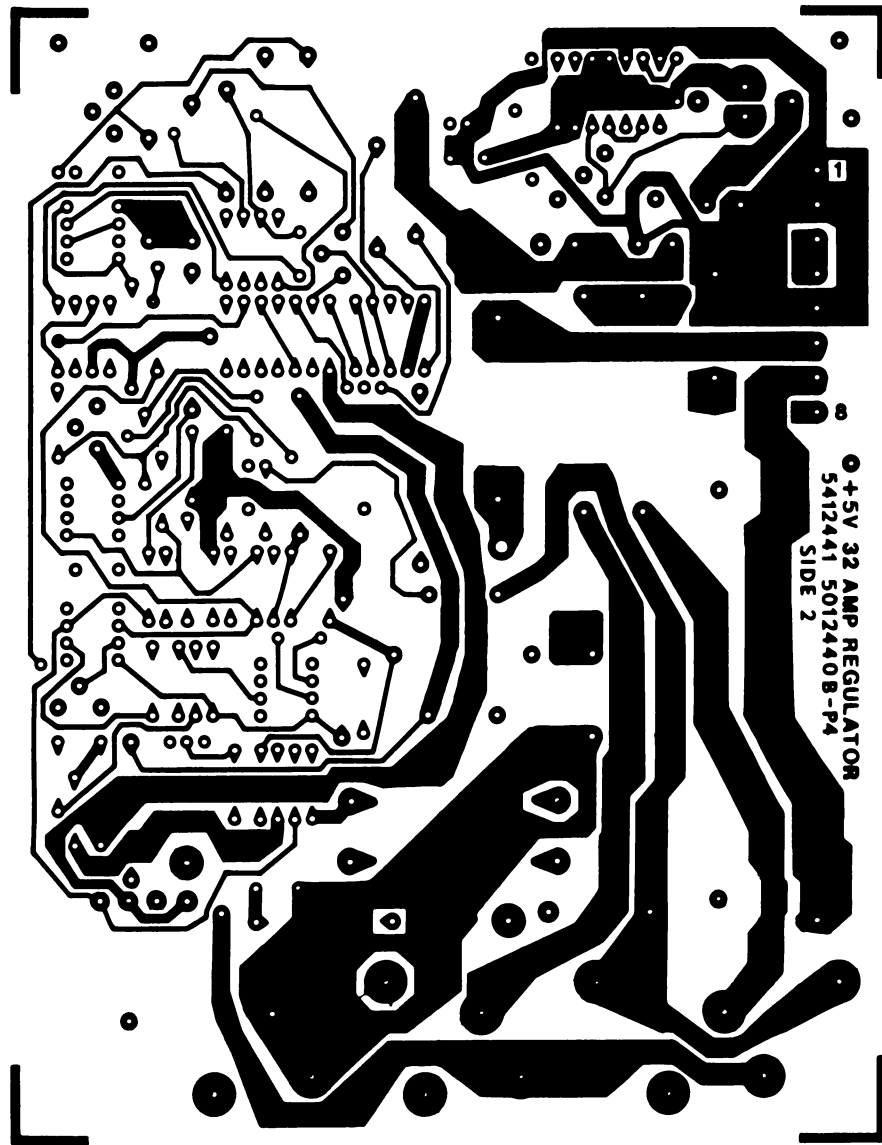
REVISIONS		
CHK	CHANGE NO.	REV.

+5V, 32 AMP, REGULATOR			DUA 5412441-0-0		J
2/1	2	3			



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REVISIONS		
CHK	CHANGE NO.	REV.

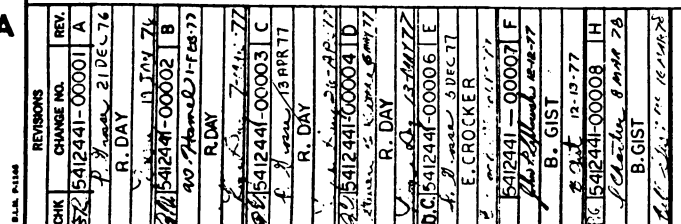
TITLE		SHEET		NUMBER		REV
+5V, 32AMP REGULATOR		D UA		5412441-0-0		J
DATE	2/1	SHEET	3	OF	3	DIST

LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
30	30		1213071-02	INSULATOR,RUBBER SILICONE SM	3	
31	31		1212787-00	THERMOSTAT,00212,C0182,NC	1	S1
32	32		1210737-02	HEAT SINK,REGULATOR	1	
33	33		1213071-06	INSULATOR,RUBBER SILICONE	1	
34	34		1312626-00	2.49 K 1/4W 1% RN55D-F 100PPM	1	R32
35	35		1300229-00	100 1/4W 5% CC	2	R37,R38
36	36		1300250-00	150 1/4W 5% CC	2	R24,R34
37	37		1305322-00	7.5 K 1/4W 1% RN55D-F 100PPM	1	R19
38	38		1300295-00	330 1/4W 5% CC	1	R23
39	39		1301424-00	680 1/4W 5% CC	1	R28
40	40		1301327-00	68 K 1/4W 5% CC	1	R29
41	41		1300439-00	3.3 K 1/4W 5% CC	1	R35
42	42		1310219-00	.25 3W 1% WW	1	R5
43	43		1300248-00	130 1W 5% CC	1	R6
44	44		1302644-00	226 1/4W 1% RN55D-F 100PPM	2	R8,R9
45	45		1300277-00	220 1W 10% CC	1	R16
46	46		1300309-00	390 1/4W 5% CC	1	R40
47	47		1312922-00	536 1/4W 1% RN55D-F 100PPM	1	R33
48	48		1300365-00	1 K 1/4W 5% CC	3	R13,R21,R27
49	49		1300394-00	1.5 K 1/2W 5% CC	1	R1
50	50		1300447-00	4.7 K 1/4W 5% CC	2	R12,R41
51	51		1300479-00	10 K 1/4W 5% CC	4	R14,R15,R22,R42
52	52		1301695-00	47 1/2W 5% CC	1	R4
53	53		1301972-00	270 1/4W 5% CC	1	R11
54	54		1312747-00	56.2 K 1/4W 1% RN55D-F 100PPM	1	R20
55	55		1302751-00	30 1/4W 5% CC	2	R36,R39
56	56		1302871-00	1.21 K 1/4W 1% RN55D-F 100PPM	1	R2
57	57		1303179-00	8.2 K 1/4W 5% CC	2	R25,R26
58	58		1305337-00	3.65 K 1/4W 1% RN55D-F 100PPM	1	R3
59	59		1309143-07	1 K 3/4W 10% POT 100PPM	1	R31
60	60		1310868-00	.39 2W 5% WW	1	R10
61	61		1313712-00	.01 5W 3% WW	2	R17,R18
62	62		1312682-00	3 3W 5% CC	1	R7
63	63		1300256-00	150 1W 10% CC	1	R30
64	64		1300171-00	10 1W 5% CC	1	R43
65	65		1510196-00	2N 5302/HSNFN 200WC SI 60 40 M	2	Q1,Q2
66	66		1510555-00	MJE3055 NPN 90WC SI 60 20 Y	1	Q4
67	67		1510705-00	XA 05 NPN 500MW SI 60 50 P	2	Q6,Q7
68	68		1510706-00	XA 55 PNP 500MW SI 60 50 P	1	Q8
69	69		1510708-00	D 45HB PNP 50UT SI 60 60 Y	1	Q3
70	70		1510928-00	C32AX135 SCRD100V I=25A	1	D21
71	71		1512790-00	D 44C11 NPN 30W SI 80 40	1	Q5
72	72		1511686-00	DEC5433 FET N 350MW 10 25 1A 20U	1	Q9
73	73		1612584-00	50 UH 30A	1	L1
74	74		1612592-00	PULSE XFMR,RATIO 4:1	1	T1
75	75		1613713-00	CHOKE, 5 UH 32A	1	L2
76	76		1613714-00	2 UH 20A	1	T2
77	77		1910282-00	301AN OP AMP	2	E3,E4

DIGITAL EQUIPMENT CORPORATION	TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
MAYNARD, MASSACHUSETTS	+5V 32 AMP REGULATOR		K	PL	5412441-0-0	J

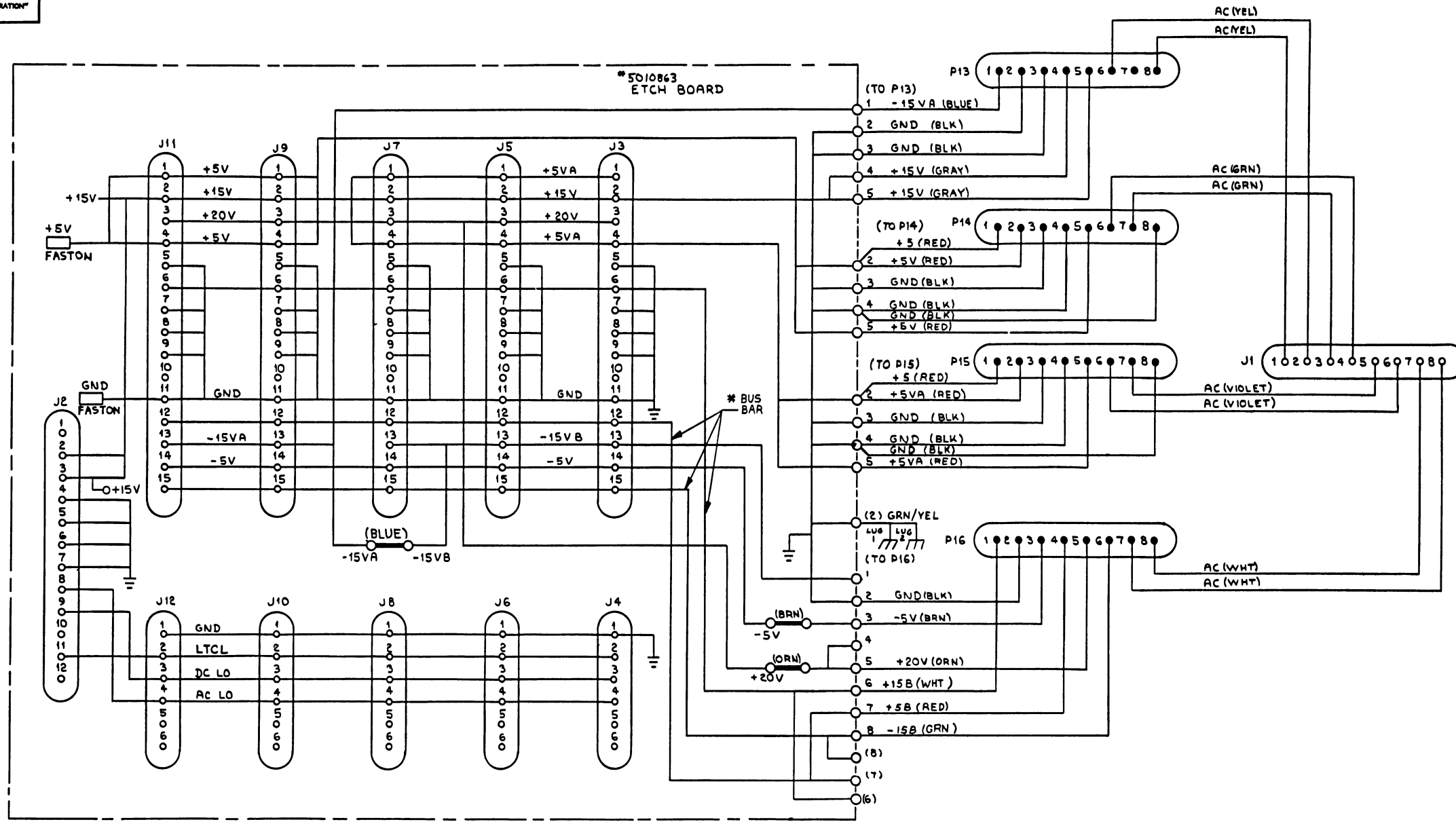
LINE	ITEM	DOCUMENT NO.	PART NO.	DESCRIPTION	QTY	REFERENCE DESIGNATORS
78	78		1911944-00	555CN TIMER,FUNCT.BLOCK	2	E1,E2
79	79		7013274-00	JUMPER CAP TRAWS	1	
80	80		7013274-01	JUMPER CAP TRAWS	1	
81	81		7414765-00	HEATSINK	1	
82	82		9006633-00	WASHER,LOCK,INT,.280OD X .146ID X .018 THK	3	
83	83		9008172-00	WASHER, FLAT,SS .250 OD X .125 ID X .022 T	3	
84	84		9006660-00	WASHER, FLAT, .375 O.D. X .187 I.D. X .036	2	
85	85		9006653-00	WASHER, FLAT, .375 O.D. X .156 I.D. X .036	1	
86	86		9008082-00	WASHER, FLAT, FIBER OD. 1/2	2	
87	87		9007927-00	TERM RING 1FOS INSULATED,16-14AWG,ROLL	2	
88	88		9006037-03	SCREW,TRUS,PHIL, 8-32X 3/8 SS/PAS	2	
89	89		9006557-00	NUT,KEP , 4-40X 1/4 AF	CS 1	
90	90		9006563-00	NUT,KEP , 8-32 X11/32AF	CS 2	
91	91		9007203-00	CLIP, FUSE, WITH STOP, SCREW MOUNTED	2	
92	92		9007226-00	FUSE, REC BLOW, 15.000A, 32V, GLASS	1	F1
93	93		9008268-00	COMPOUND, THERMAL JOINT	A/R	
94	94		9006012-01	SCREW,PAN ,PHIL, 4-40X 7/16 SS/PAS	2	
95	95		9009000-00	EYELET, ROLLED FLANGE, .121 OD X .156 LG	4	
96	96		9009769-00	WASHER, RECTANGULAR .405X.225X.060	1	
97	97		9006021-01	SCREW,PAN ,PHIL, 6-32X 5/16 SS/PAS	2	
98	98		9007660-00	SPACER, FIBER, RND, 4-40, .250 X .500 LG	1	
99	99		9007801-00	WASHER, LOCK, S.S. #6	7	
100	100		9008957-00	NUT,HEX , 6-32X 1/4 AF X 3/32 THK SS	7	
101	101		9007793-01	SCREW,PAN ,PHIL, 6-32X 9/16 SS/PAS	8	
102	102		9006010-01	SCREW,PAN ,PHIL, 4-40X 5/16 SS/PAS	1	
103	103		9107360-99	WIRE,STRND,18AWG,IPVC UL1429 (91-00 A/R		
104	104		9107370-00	WIRE,STRND,14AWG,IPVC UL1534 (91-00 A/R		

DIGITAL EQUIPMENT CORPORATION	TITLE	PARTS LIST	SIZE	CODE	DOCUMENT NUMBER	REV
MAYNARD, MASSACHUSETTS		+5V 32 AMP REGULATOR	K	PL	5412441-0-0	J



DRN. <i>J. Dineen</i> # 7-27-76	FIRST USED ON		H7441		digital	
CHK'D <i>J. Dineen</i> 8-10-76	TITLE		+ 5V 32 AMP			
ENG. <i>J. Dineen</i> 10-24-76	REGULATOR					
PROJ. ENG. <i>J. Dineen</i> 11-12-76						
PROD. <i>R. Dineen</i> 11-12-76	NEXT HIGHER ASSY.					
SCALE <i>1/4"</i>		SIZE	CODE	NUMBER		REV.
SHEET 1 OF 1		D	CS	5412441-0-1		H
DIST.						

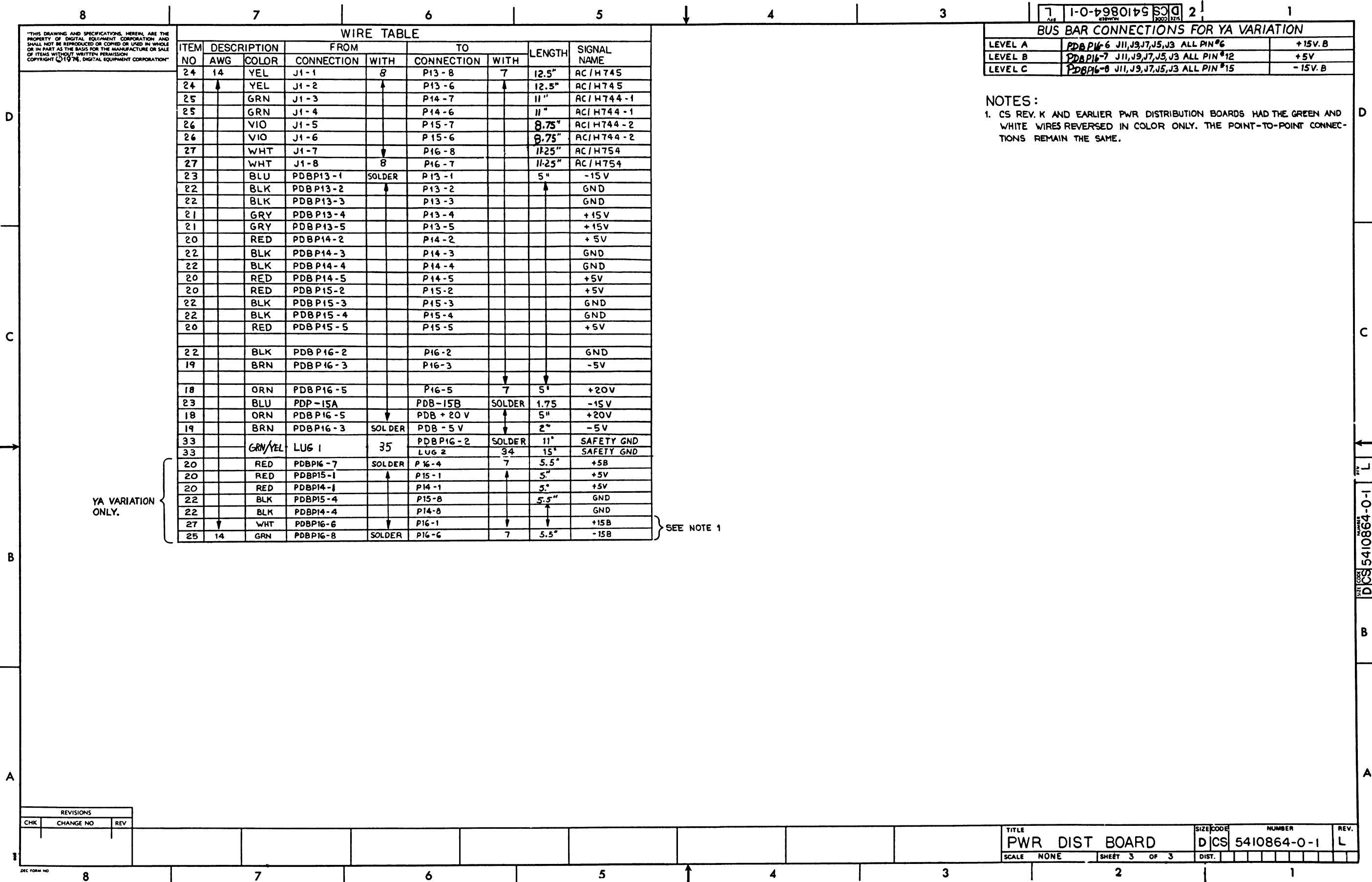
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* BUS BAR USED IN THE YA VARIATION ONLY

REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE CODE	NUMBER	REV.
PWR DIST BOARD		D CS	5410864-0-1	L
SCALE	NONE	SHEET	2 OF 3	DIST.



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WIRE TABLE

ITEM NO	AWG	COLOR	FROM		TO		LENGTH	SIGNAL NAME
			CONNECTION	WITH	CONNECTION	WITH		
24	14	YEL	J1-1	8	P13-8	7	12.5"	AC/H745
24		YEL	J1-2		P13-6		12.5"	AC/H745
25		GRN	J1-3		P14-7		11"	AC/H744-1
25		GRN	J1-4		P14-6		11"	AC/H744-1
26		VIO	J1-5		P15-7		8.75"	AC/H744-2
26		VIO	J1-6		P15-6		8.75"	AC/H744-2
27		WHT	J1-7		P16-8		11.25"	AC/H754
27		WHT	J1-8	8	P16-7		11.25"	AC/H754
23		BLU	PDBP13-1	SOLDER	P13-1		5"	-15V
22		BLK	PDBP13-2		P13-2			GND
22		BLK	PDBP13-3		P13-3			GND
21		GRY	PDBP13-4		P13-4			+15V
21		GRY	PDBP13-5		P13-5			+15V
20		RED	PDBP14-2		P14-2			+5V
22		BLK	PDBP14-3		P14-3			GND
22		BLK	PDBP14-4		P14-4			GND
20		RED	PDBP14-5		P14-5			+5V
20		RED	PDBP15-2		P15-2			+5V
22		BLK	PDBP15-3		P15-3			GND
22		BLK	PDBP15-4		P15-4			GND
20		RED	PDBP15-5		P15-5			+5V
22		BLK	PDBP16-2		P16-2			GND
19		BRN	PDBP16-3		P16-3			-5V
18		ORN	PDBP16-5		P16-5	7	5"	+20V
23		BLU	PDBP15A		PDBP15B	SOLDER	1.75	-15V
18		ORN	PDBP16-5		PDBP20V		5"	+20V
19		BRN	PDBP16-3	SOLDER	PDBP5V		2"	-5V
33		GRN/YEL	LUG 1	35	PDBP16-2	SOLDER	11"	SAFETY GND
33		GRN/YEL	LUG 2	34	LUG 2	34	15"	SAFETY GND
20		RED	PDBP16-7	SOLDER	P16-4	7	5.5"	+5B
20		RED	PDBP15-1		P15-1		5"	+5V
20		RED	PDBP14-1		P14-1		5"	+5V
22		BLK	PDBP15-4		P15-8		5.5"	GND
22		BLK	PDBP14-4		P14-8			GND
27		WHT	PDBP16-6		P16-1			+15B
25	14	GRN	PDBP16-8	SOLDER	P16-6	7	5.5"	-15B

SEE NOTE 1

7 1-0-7980145 5000 3276 2 1

BUS BAR CONNECTIONS FOR YA VARIATION

LEVEL A	PDBP16-6 J11,J9,J7,J5,J3 ALL PIN #6	+15V.B
LEVEL B	PDBP16-7 J11,J9,J7,J5,J3 ALL PIN #12	+5V
LEVEL C	PDBP16-8 J11,J9,J7,J5,J3 ALL PIN #15	-15V.B

NOTES:

- CS REV. K AND EARLIER PWR DISTRIBUTION BOARDS HAD THE GREEN AND WHITE WIRES REVERSED IN COLOR ONLY. THE POINT-TO-POINT CONNECTIONS REMAIN THE SAME.

YA VARIATION ONLY.

REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE CODE	NUMBER	REV.
PWR DIST BOARD		D/CS	5410864-0-1	L
SCALE	NONE	SHEET	3 OF 3	DIST.

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DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS								
PACKAGING INSTRUCTION				REV: A		DATE: 2/77		
TITLE FP11-AU FLOATING POINT UPGRADE KIT				B		10/77		
MATERIAL REQUIREMENTS								
Quantity		Purchase Specification No.		Description				
3		9905241-00		Hex-Module Book Pack				
2		9905880		Die-Cut Sheet				
1		9905212		Die-Cut Sheet				
1		9905375-01		Die-Cut Carton				
1		9905374-01		Taped Tube				
1		9905622		Module Box				
1		9906009-00		Pad, Laminated				
1		9906009-01		Pad, Laminated				
1		9906010		Pad, Laminated				
1		9906011		Pad, Laminated				
1		9906012		Pad, Laminated				
1		9906008		Tube, Taped				
1		9906007		Carton, Regular Slotted				
12 ft.		9905729		Tape, Carton Sealing				
PACKAGING INSTRUCTIONS								
Step		Procedure						
NOTE								
See Figure 1 for Steps 1 thru 4								
1.		Fold and place one Die-Cut Sheet (9905880) into bottom of Die-Cut Carton (9905375-01)						
2.		Place Power Supply into Die-Cut Sheet (9905212) and then into the Die-Cut Sheet (9905880). Used in Step 1.						
3.		Place the remaining Die-Cut Sheet (9905880) on top of the Power Supply and then close the cover and seal with one strip of Carton Sealing Tape.						
4.		Place Die-Cut Carton into Taped Tube and seal with Carton Sealing Tape.						
NOTE								
See Figure 2 for Steps 5 thru 19								
5.		Seal bottom of Regular Slotted Carton 1 piece along length and each edge.						
6.		Place Prepackaged H7441 in Regular Slotted Carton (9906007).						
ENG		12/28/76	APPD	28 DEC 76	SIZE	CODE	NUMBER	REV
R. M. Howard			R. E. Palmer		A	SP	3700270-0-0	B

DEC 8-(551)-1031-1-R671
DRA - 129

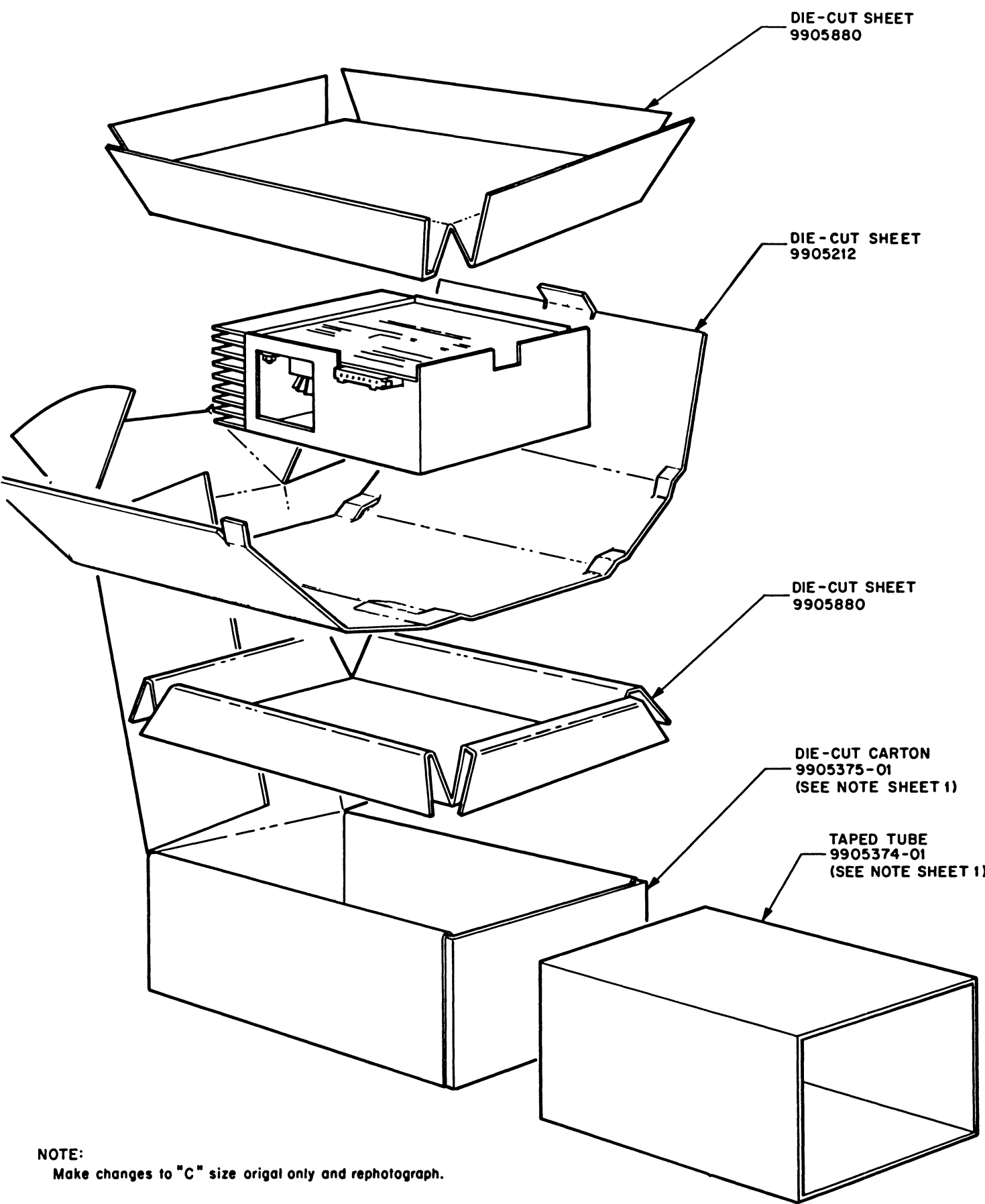
SHEET 1 OF 4

PACKAGING INSTRUCTION			CONTINUATION SHEET			
TITLE FP11-AU FLOATING POINT UPGRADE KIT						
Step		Procedure				
7.		Place Laminated Pad (9906012) in carton with recess in vertical position.				
8.		Insert Extender Board W9042 with Cables into Module Box (9905622).				
9.		Place Module Box into rectangular recess in Laminated Pad (9906012).				
10.		Place Laminated Pad on top of packaged H7441.				
11.		Place Laminated Pad (9906010) in carton with recess vertical.				
12.		Place Hex Module (3) (M8265, M8266, M8267) into Module Book Packs (9905241-00) with etch side up and seal with Carton Sealing Tape (9905729)				
13.		Insert the (3) Book Packs into recesses of Laminated Pads.				
14.		Insert Power Distr. Strip (5410864-YA) into Taped Tube (9906008).				
15.		Insert Pads (9906009-00 and 9906009-01) into ends of Taped Tube (9906008) with recesses facing out.				
16.		Insert Connector Blocks ((1) M 5412416, (1) H8821) into recesses of pads with etch side out.				
17.		Place Taped Tube (9906008) on top of Module Book Packs between Laminated Pads.				
18.		Insert Manuals and Print Set on either side of Book Packs.				
19.		Seal Carton with Carton Sealing Tape (9905729).				
<div>12/28/76</div> <div><i>Al Howard</i></div>		<div>28 DEC 76</div> <div><i>R. J. Blumley</i></div>	SIZE A	CODE SP	<div>NUMBER</div> <div>3700270-0-0</div>	REV B

DEC8-1031

SHEET 2 OF 4

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PACKAGING INSTRUCTION		REV: <u> A </u>	DATE: <u> 2 / 77 </u>
TITLE		<u> B </u>	<u> 10 / 77 </u>
FP11-AU FLOATING POINT UPGRADE KIT		<u> </u>	<u> </u>
<div><p>DIE-CUT SHEET 9905880</p><p>DIE-CUT SHEET 9905212</p><p>DIE-CUT SHEET 9905880</p><p>DIE-CUT CARTON 9905375-01 (SEE NOTE SHEET 1)</p><p>TAPED TUBE 9905374-01 (SEE NOTE SHEET 1)</p><p>NOTE: Make changes to "C" size origal only and rephotograph.</p></div>			
ENG. <i>Rm Munia</i> 7/22/76	APPD. <i>J. L. Almeida</i> 7/22/76	SIZE A	CODE SP
NUMBER 3700270-0-0		REV B	

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PACKAGING INSTRUCTION		REV: <u> A </u>	DATE: <u> 2/77 </u>
TITLE		<u> B </u>	<u> 10/77 </u>
FP11-AU FLOATING POINT UPGRADE KIT			
<p>FIGURE 2</p>			
ENG. <i>R. Howard</i>	12/28/76	APPD. <i>R. E. Belmer</i>	20 DEC 76
SIZE	A	CODE	SP
NUMBER	3700270-0-0		
REV	B		

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